

A ♦ S ♦ M ♦ E
YEAR BOOK
1914





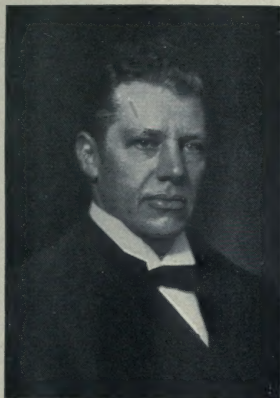
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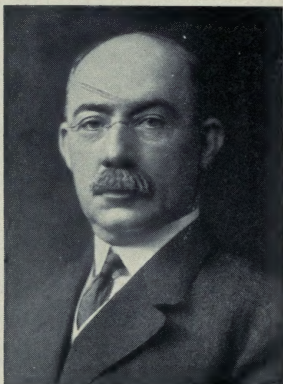
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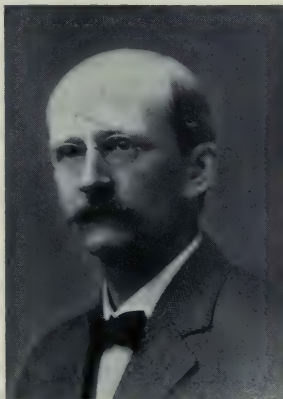
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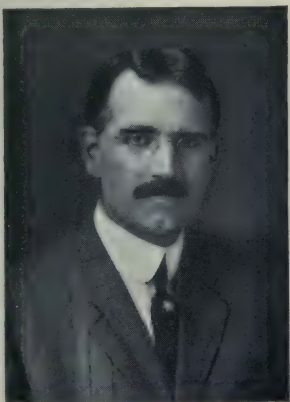
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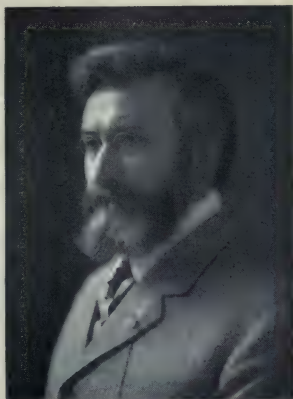
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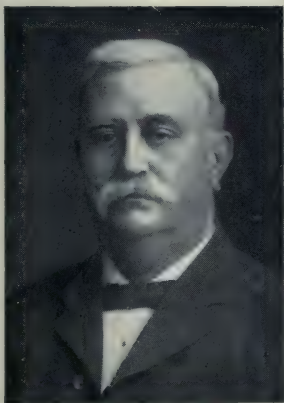
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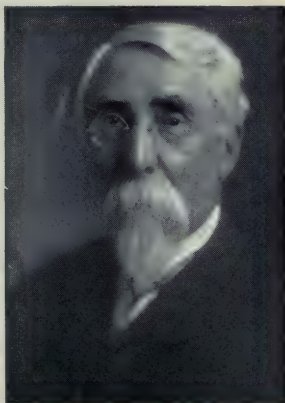
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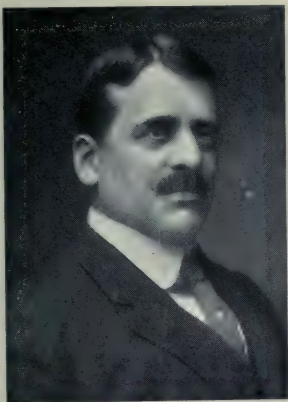
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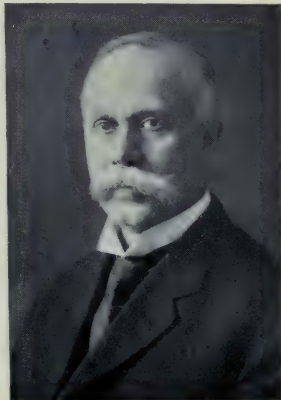
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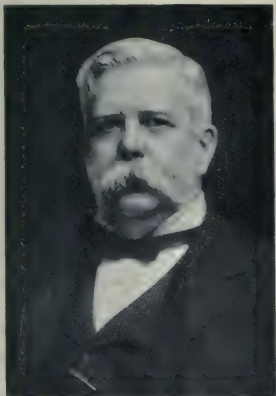
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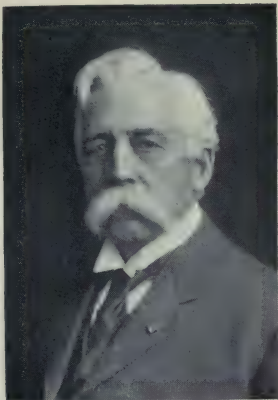
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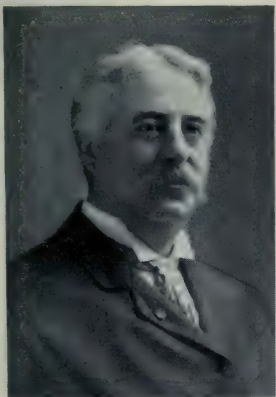
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THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

YEAR BOOK

CONTAINING LISTS OF MEMBERS
ARRANGED ALPHABETICALLY
AND GEOGRAPHICALLY

CORRECTED TO JANUARY 1, 1914



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NEW YORK
29 WEST 39TH STREET
1914

Organized 1880 Incorporated 1881
Reincorporated 1908

THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS



YEAR BOOK

CONTAINING LISTS OF MEMBERS
ARRANGED ALPHABETICALLY
AND GEOGRAPHICALLY

PUBLISHED IN JANUARY, 1914



SEP 11 1914

NEW YORK
25 West 25th Street
1914

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DIRECTIONS FOR USING THIS BOOK

Both business and home addresses will be found in the Alphabetical List (p. 3). For business addresses of members residing in any particular city or town, consult the Geographical List (p. 255), which is arranged alphabetically by countries, states, cities and names of members. The date after each name in the Alphabetical List shows when membership in the Society began. When there are two or three dates, promotion to the present grade of membership from another grade took place at the last date given.

Where two addresses are given, the first is the business address. The words "*and for mail*" are used when the preferred address for mail is not the first address.

Each of these lists contains the names of members of all grades, including Honorary Members, Members, Associates, Associate-Members and Juniors.

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THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

29 West 39th Street, New York

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SPRING MEETING, St. Paul-Minneapolis, Minn., June 16-19.

ANNUAL MEETING, New York, December 1-4, 1914.

LOCAL MEETINGS

New York, second Tuesdays, October to May, 8:15 p. m.

In the following places, at dates to be announced: Atlanta, Boston, Chicago, Cincinnati, Milwaukee, New Haven, Philadelphia, Providence, St. Louis, St. Paul-Minneapolis and San Francisco.

THE ROOMS OF THE SOCIETY on the eleventh floor of the Engineering Societies Building are open to visitors from nine to five, throughout the year, except Sundays and the following holidays: New Year's, Lincoln's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Election Day, Thanksgiving Day and Christmas.

THE LIBRARY OF THE ENGINEERING SOCIETIES, containing the libraries of the American Institute of Mining Engineers, The American Society of Mechanical Engineers, and the American Institute of Electrical Engineers, on the thirteenth floor of the Engineering Societies Building, is open on week days, except on Christmas and Christmas eve, New Year's and New Year's eve, Thanksgiving and Independence Day, from 9 a. m. to 9 p. m.; in July and August from 9 a. m. to 6 p. m.

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NOTES.—Numbers in parentheses indicate number of years the member has yet to serve.

For Officers of Gas Power Section and Student Branches, see pages 420 and 421.

GENERAL INFORMATION

HEADQUARTERS

The headquarters of The American Society of Mechanical Engineers are in the Engineering Societies Building, 29 West Thirty-ninth Street, New York, which was given by Andrew Carnegie, Hon.Mem.Am.Soc.M.E., as a home for the American Institute of Mining Engineers, The American Society of Mechanical Engineers and the American Institute of Electrical Engineers. Kindred societies have offices in the building and share in the privileges of the auditoriums for meeting purposes. The location is about midway between Fifth Avenue and Broadway, a short distance from the Grand Central and the Pennsylvania Stations and from subway, surface and elevated lines, the Public Library at Forty-second Street, the theatre district in the vicinity of Times Square, and the shopping district at Thirty-fourth Street.

The Engineering Societies Building is 13 stories high, has a frontage of 115 feet and is 90 feet deep. On the first floor above the street is an auditorium seating 1000 persons, and on the two floors above are six auditoriums seating from 100 to 500 persons each. The library of the engineering societies is on the two top floors.

The rooms of the Society occupy the entire eleventh floor and are homelike and convenient as a rendezvous for the members and their friends. All members are invited to make their headquarters here when in New York. Rooms for private consultation are also available.

The Engineers' Club, a social organization to which many of the members belong, is located on Fortieth Street and is accessible from the Engineering Societies Building.

MEMBERSHIP

The membership of the Society consists of Honorary Members, Members, Associates, Associate-Members and Juniors, the qualifications for each grade being stated in the Constitution published at the back of this volume. The initiation fee for Members, Associates and Associate-Members, is \$25, and for Juniors, \$15. The annual dues are \$15 for Members, Associates, and Associate-Members; \$10 for Juniors for the first six years and \$15 thereafter.

Application for membership is made in writing on a standard form, which may be procured from the Secretary. An applicant for grade of Member, Associate, or Associate-Member must refer to at least five voting members and an applicant for the Junior grade must refer to at least three voting members.

GENERAL INFORMATION

Engineers applying for membership and not residing in the United States or Canada, who are not personally acquainted with five members, may refer to engineers who are not members but are personally familiar with the work of the applicant.

The approved method of submitting applications is for the applicant to fill in personally the data relating to his professional service and to give the list of references. The latter are required to have personal knowledge of the professional service of the applicant and permission to use names for references should be secured in each instance. Juniors may not serve as endorsers.

Candidates for admission to the Society are posted in the issue of The Journal following the receipt of their applications. A period of forty days is given in which members may advise the Secretary of any objection they may have to the election of any candidate. The Membership Committee then meet to consider each application and make recommendation to the Council as to the grade to which candidates who receive their favorable consideration shall be assigned.

A list of the candidates, together with the recommendations of the Membership Committee, is then submitted to the Council for vote by letter-ballot. Upon the closing of the ballot by the Council the Secretary at once advises all successful applicants of their election. The initiation fee and first year's dues are payable on notice of election.

PRIVILEGES

Membership in The American Society of Mechanical Engineers affords the privilege of engaging in a broad work for the advancement of the engineering profession. Many advantages also accrue from association at the meetings and mutual interchange of information and courtesies.

Every member receives a copy of the Year Book and The Journal of the Society, including the Transactions. Members also enjoy the benefits of the library of the Engineering Societies described on another page.

The members of the Society are entitled to place after their names the abbreviation of their official relation to the Society, and to wear the official badge bearing the Society's initials.

An engraved certificate of membership signed by the President and Secretary and authenticated by the Society's seal is issued on request of members. A nominal charge of one dollar is made to cover expense of issuing this certificate.

PROFESSIONAL OPPORTUNITIES

The Society acts also as an informal bureau of information respecting professional opportunities. This is of advantage to those who seek professional assistants in their important work

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as well as to those who wish to place themselves in lines of greater usefulness and promotion.

Members are privileged to insert without charge a notice in the Employment Bulletin published each month in The Journal.

MEETINGS

The Society holds two general meetings or conventions each year for the discussion of contributed papers and the exchange of views on professional topics of current interest.

The Annual Meeting is held in New York beginning with the first Tuesday in December, and the Semi-Annual or Spring Meeting is held at such time and place as the Council may appoint. These meetings are under the direction of the Committee on Meetings of the Society and papers to be presented are subject to the approval of this committee. The social features at these meetings are especially enjoyable and play an important part in the making of new acquaintances as well as the renewing of old friendships.

Members residing even at a considerable distance from the places of meeting will find it a distinct advantage to make the journey and come into personal touch with the other members at the Annual and Semi-Annual Meetings. At these meetings visits to points of technical interest are always made and opportunity is frequently given to visit engineering works and the like, to which access by individuals might be either difficult or impossible.

Monthly meetings are held in New York on the evenings of the second Tuesdays in October, November, January, February, March and April. The Constitution provides for the holding of other meetings upon the written request to the Council from fifty members. Under this provision monthly meetings have been held during the past year in Atlanta, Boston, Chicago, Cincinnati, Milwaukee, New Haven, Philadelphia, Providence, St. Louis, St. Paul-Minneapolis and San Francisco, with the probability of meetings in other cities in the near future. Such meetings are conducted as sections or as meetings of the members in the locality, or of societies affiliated with this Society, according to the arrangements made in each case. The papers for these meetings are subject to the approval of the committee in charge and have the same advantages of publication in The Journal as the papers presented at the annual and spring meetings.

GOVERNMENT

The Society is governed by a Council consisting of the executive officers, six vice-presidents, nine managers, the five junior past-presidents and the chairman of the finance committee. The various activities of the Society are directed by standing committees of five members each. The members are appointed in rotation by the president for five-year periods.

PROFESSIONAL COMMITTEES

Besides the standing committees, special committees are appointed to investigate and report upon questions of engineering interest referred to them. The results of many useful and important investigations are already on record, and are available in pamphlet form.

Recognizing the extent to which industrial expansion has increased the field of the mechanical engineer, the Council has authorized the appointment of sub-committees of the Committee on Meetings for each industry and branch of engineering. Of the thirty-eight committees contemplated, twelve have been appointed and are actively at work.

It is proposed to have each committee consist of men recognized as leading authorities in their subject, without regard to Society membership, carefully selected to cover the different sections of the country and all phases of the subject.

These sub-committees advise upon papers covering the various branches of industry to which mechanical engineering is related and assist in the arrangement of meetings and subjects. Several reports have been issued by these sub-committees.

PUBLICATIONS

The Journal of The American Society of Mechanical Engineers is the monthly publication of the Society and besides announcements of meetings, accounts of Society affairs and activities, and much other material of direct interest to the membership, contains reports of the various meetings held throughout the country. A large amount of material comes to the Society for publication in The Journal, in addition to the papers presented at the two annual conventions, so that the field of mechanical engineering is covered broadly and the various subjects which are discussed are treated by authorities and oftentimes by committees of engineers who have specialized on the topics presented. A feature of The Journal is a review in English of foreign periodicals and a digest of the leading papers in mechanical engineering presented before the various engineering societies of the world. This review and digest are so prepared as to give sufficient data to enable an engineer to make use of the material published without having to refer to the original articles.

The Journal is sent to all members without extra charge. The subscription price of The Journal to members, affiliates, student members, libraries and colleges is \$2 per year, and to non-members, \$3; single copies 25 cents to members, and 35 cents to non-members.

The Society issues in February of each year a Year Book which contains two lists of the members of the Society, arranged alphabetically and geographically. It also contains in full the Charter, Constitution, By-Laws and Rules of the Society. The Year Book is distributed annually to the entire membership.

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Papers for presentation at a meeting are usually, but not always, published in advance in pamphlet form for the convenience of those desiring to discuss them, and for distribution at the meeting. The cost of these advance papers is 10 cents per 16 pages, with half-rates to members. Special prices are made when papers are ordered in quantities.

PROFESSIONAL PAPERS

Papers and discussions of engineering interest are invited, whether from members or non-members. All papers are subject to approval and editorial supervision by the committee in charge of the meeting at which they are to be presented. Papers should contain engineering data of value to the profession, arranged for convenient reference. Matter readily accessible elsewhere, or of a speculative character, or which advocates special interests, is not acceptable. Papers should be submitted in completed form to the Secretary.

THE LIBRARY

The joint library of the Engineering Societies, which contains the individual libraries of the American Institute of Mining Engineers, The American Society of Mechanical Engineers and the American Institute of Electrical Engineers, constitutes one of the greatest elements of usefulness of the Engineering Societies Building. It is located on the two upper floors, is maintained as a free public engineering library and contains over 65,000 volumes, one of the finest collections of engineering and scientific publications in America. Over 700 American and foreign technical periodicals are received as well as the proceedings of the various engineering societies of the world. Effective provision is made so that the treasures of the library are available not only to those members within easy traveling distance but also to those who can reach the library only through the mails. Searches in every branch of technical literature, abstracts and translations, as well as photographic copies of articles and illustrations, are made by a trained staff at the request of members.

The library is open on week days except on Christmas and Christmas eve, New Year's and New Year's eve, Thanksgiving and Independence days, from 9 a. m. to 9 p. m., in July and August to 6 p. m. Reading-room facilities are offered to the public at large, and full privileges can be secured by members of the founder societies upon presentation of a personal, non-transferable card issued by the secretary of his society, or by non-members who are officially introduced by one of the secretaries.

STUDENT BRANCHES

The Council has recognized the requests of organizations of students in engineering schools to associate themselves with the Society as Student Branches, and thirty have made this affiliation. Each branch has an independent organization under its

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own by-laws, subject to certain limitations set by the Council. To form such a section, a written request signed by the dean of the school or college, and by a member of the Society who is also a member of the faculty should be presented to the Council. Forms for this purpose are obtainable from the Secretary. Students who affiliate with these branches pay annual dues of \$2 which entitle them to receive The Journal.

INSIGNIA

The seal of the Society, which appears on the cover of the Year Book, is based on the saying attributed to Archimedes, "Give me where I may stand and I will move the world."

The official badge of the Society is a four-leaf clover design and bears the Society's initials. The badge for Honorary Members, Members, Associates and Associate-Members is in dark blue enamel, with letters in bright gold. The Junior badge is of the same design, but with a crimson background.

JOHN FRITZ MEDAL

The John Fritz Medal, established in 1902, on the eightieth birthday of John Fritz, by professional associates and friends as a means of perpetuating the memory of his achievements in industrial progress, is awarded annually by the four national engineering societies—the American Society of Civil Engineers, the American Institute of Mining Engineers, The American Society of Mechanical Engineers, and the American Institute of Electrical Engineers—for notable scientific or industrial achievement, irrespective of nationality or sex, in accordance with the decision of a board composed of four members from each of these societies.

The medal was awarded in 1902 to John Fritz, Hon.Mem.Am.Soc.M.E., for notable scientific and industrial achievement; in 1905 to Lord Kelvin for his work in the development of cable telegraphy and other scientific accomplishments; in 1906 to George Westinghouse, Hon.Mem.Am.Soc.M.E., for the invention and development of the air brake; in 1907 to Alexander Graham Bell for the invention and development of the telephone; in 1908 to Thomas Alva Edison, Hon.Mem.Am.Soc.M.E., for the invention of the duplex and quadruple telegraph, the phonograph, the development of a commercially practical incandescent lamp, the development of a complete system of electric lighting, including dynamos, regulating devices, underground system protective devices and meters; in 1909 to Charles T. Porter, Hon.Mem.Am.Soc.M.E., for his work in the origination and development of the high-speed steam engine; in 1910 to Alfred Noble, Mem.Am.Soc.M.E., for notable achievements as a civil engineer; in 1911 to Sir Wm. H. White, Hon.Mem.Am.Soc.M.E., for notable achievements in marine engineering; in 1912 to Capt. Robert W. Hunt, Past-President Am.Soc.M.E., for his contributions to the early development of the Bessemer process.

HONORARY MEMBERS IN PERPETUITY

ALEXANDER LYMAN HOLLEY, Deceased Founder of the Society.

HENRY ROSSITER WORTHINGTON, Deceased Founder of the Society.

HONORARY MEMBERS

(In order of dates of election)

Gustave Eiffel.....1889	Thomas Alva Edison.....1904
Henri Léauté.....1891	Andrew Carnegie.....1907
Benj. Franklin Isherwood..1894	John A. Brashear.....1908
George Westinghouse.....1897	John A. F. Aspinall.....1911
Wm. Cawthorne Unwin....1898	Anatole Mallet.....1912
Sir Douglas Fox.....1900	Oskar von Miller.....1912
John E. Sweet.....1904	Capt. Charles H. Manning.1913

THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

LIST OF MEMBERS

ARRANGED ALPHABETICALLY
ALL GRADES

THE UNIVERSITY OF CHICAGO
PRESS

LIST OF MEMBERS

OF THE

AMERICAN SOCIETY OF
LINGUISTICS

ALPHABETICAL LIST OF MEMBERS ALL GRADES

- ABBOTT, Chas. Carroll (1905), Cons. Engr., Triumph Voting Mch. Co., and *for mail*, 240 Second St., Pittsfield, Mass.
- ABBOTT, Frederick Bancroft (1904), 419 Ninth St., Brooklyn, N. Y.
- ABBOTT, Henry Warburton (Junior, 1913), Asst. to M. M., The Pa. Steel Co., and *for mail*, 363 Locust St., Steelton, Pa.
- ABBOTT, William L. (1891), Manager, 1907-1910; Ch. Operating Engr., Commonwealth Edison Co., 120 W. Adams St., and *for mail*, 4616 Beacon St., Chicago, Ill.
- ABELL, Harry Clinton (1900; 1902), Mech. Engr., care of Emerson McMillin & Co., 40 Wall St., New York, N. Y.
- ABERCROMBIE, James Henderson (1901), care of The Farmers Loan & Trust Co., 15 Cockspur St., S. W., London, England.
- ABORN, George P. (1889; 1892), Mgr., Blake & Knowles Steam Pump Wks., East Cambridge, and *for mail*, 50 Garrison Rd., Brookline, Mass.
- ABRAMS, Herbert T. (1901), Mgr. Pump and Calyx Drill Depts., Ingersoll-Rand Co., 11 Broadway, New York, N. Y., and *for mail*, 160 Cleveland St., Orange, N. J.
- ACHESON, Albert Robert (1913), Prof. Mech. Engrg., Syracuse Univ., and *for mail*, 852 Ostrom Ave., Syracuse, N. Y.
- ACKER, Kemp G. (Junior, 1913), Draftsman, Petroleum Iron Wks., and *for mail*, 468 E. State St., Sharon, Pa.
- ACKERLAND, George Ernest (1913), Genl. Engrg. and Contracting, Jacobson & Ackerman, Archs. and Engrs., Grand Rapids, Wis.
- ACKERMAN, Frank (Junior, 1912), Mgr. Buffalo Branch. Internatl. Motor Co., 1259 Main St., and 55 Otis Pl., Buffalo, N. Y.
- ACKERMAN, Wm. S. (1891; 1895; 1899), Cons. Engr., 704 Colt Bldg., Paterson, N. J.
- ACKLAND, H. Baldwin (Associate-Member, 1913), Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, and 1369 53d St., Brooklyn, N. Y.
- ADAM, William Joseph (1912), Mech. Engr., The Plimpton Press, Norwood, and *for mail*, 40 Common St., Walpole, Mass.
- ADAMS, Edward T. (1899), Ch. Engr., M. Rumely Co., La Porte, Ind.
- ADAMS, Harry H. (1912), Supt. of Equip., Chicago Rys. Co., 3901 West End Ave., Chicago, Ill.
- ADAMS, Henry (1899), Cons. Engr., 855-859 Calvert Bldg., and 728 Reservoir St., Baltimore, Md.
- ADAMS, John (Junior, 1910), Estimator, Otis Elev. Co., New York, and *for mail*, 4093 Ferris St., Woodhaven, L. I., N. Y.
- ADAMS, Kilburn E. (Junior, 1908), Installations Dept., The Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, and *for mail*, 1019 Washington St., Newtonville, Mass.

- ADAMS, Thomas D. (Junior, 1906), Werner & Pfleiderer, Saginaw, Mich., and *for mail*, Westport, Conn.
- ADAMS, Walter Holbrook (1908; 1912), Prof. Mech. Engrg., Throop Poly. Inst., and 1661 Rose Villa St., Pasadena, Cal.
- ADAMS, William Jacques (Junior, 1912), G. O. Reynolds, Inc., 316 Main St., New Rochelle, and Boston Post Rd., Pelham Manor, N. Y.
- ADAMSON, Cecil F. (Junior, 1906), Cons. Engr., 318 Hamilton Bldg., Akron, and *for mail*, East Palestine, O.
- ADAMSON, Daniel (1901), Partner, Jos. Adamson & Co., and *for mail*, Longlands, Hyde, Cheshire, England.
- ADDICKS, Lawrence (1910), Supt., U. S. Metals Refining Co., Chrome, N. J.
- ADGATE, Frederick Whitney (1912), West. Mgr., The Foundation Co., Wheeling, W. Va.
- ADLER, Alphonse A. (1907; 1912), Asst. Prof. Mech. Drawing and Design, Poly. Inst. of Brooklyn, 85 Livingston St., and 507 Third St., Brooklyn, N. Y.
- AGNER, Owen B. (Junior, 1912), Engr., E. W. Clark & Co. Management Corp., 909 Wyandotte Bldg., Columbus, O.; also, Mgr. of Sales, Chattanooga Ry. & Light Co., and 8 Ferger Apts., Chattanooga, Tenn.
- AHARA, Edwin Hugh (1906), Genl. Supt., Dodge Mfg. Co., Mishawaka, Ind.
- AHARA, George Victor (1913), Mech. Engr., The Canadian Fairbanks-Morse Co., Ltd., and *for mail*, 864 Dovercourt Rd., Toronto, Ont., Canada.
- AHLEN, William (1912), Ch. Engr., Duquesne Steel Wks., Carnegie Steel Co., Duquesne, Pa.
- AHLQVIST, Harald (1909), Asst. Mgr. B. C. Dept., Solvay Process Co., and 10 Brattle Rd., Syracuse, N. Y.
- AHRENS, Geo. Fred (1897), Pres. and Treas., The Ahrens Iron Wks. Co., 3323-3337 Colerain Ave., and *for mail*, 359 Thrall Ave., Cincinnati, O.
- AHRNKE, H. P. (1902; 1912), Secy. and Treas., Dairy Mch. & Constr. Co., and 20 Seymour Ave., Derby, Conn.
- AIKEN, Charles W. (1903), Secy. and Treas., Houchin-Aiken Co., 113-123 53d St., and *for mail*, 2304 Newkirk Ave., Brooklyn, N. Y.
- AKERLIND, G. A. (1909), Insp. Engr. Bridge Dept., City of Chicago, 619-620 City Hall Sq. Bldg., and 1018 Roscoe St., Chicago, Ill.
- AKERLUND, Gustaf (1913), Ch. Engr., Stand. Gas Power Co., 12th and Monmouth Sts., Jersey City, N. J.
- ALBERT, Calvin D. (1911), Asst. Prof. Mch. Design, Sibley College, Cornell Univ., and *for mail*, 319 Wait Ave., Ithaca, N. Y.
- ALBERT, Otto (1903), Ch. Draftsman, Shaw Elec. Crane Co., and *for mail*, 51 Sanford St., Muskegon, Mich.
- ALBRECHT, Otto (1884), Mech. Engr., Tindel Morris Co., Eddystone, Delaware Co., and 1405 N. 15th St., Philadelphia, Pa.

- ALBREE, Chester B. (1886; 1897), Pres. and Ch. Engr., Chester B. Albree Iron Wks. Co., 1115 Metropolitan St., N. S., and 1116 Western Ave., N. S., Pittsburgh, Pa.
- ALBRIDGE, Frederick Royal (1911), Ch. Draftsman, Bessemer & Lake Erie R. R., and *for mail*, 313 Main St., Greenville, Pa.
- ALBRIGHT, H. Fleetwood (1903), Genl. Supt., West. Elec. Co., Hawthorne Sta., Chicago, Ill.
- ALDCORN, Thomas (Associate, 1903), Genl. East. Sales Mgr., Chicago Pneu. Tool Co., 50 Church St., and Oregon Apts., 54th St. and 7th Ave., New York, N. Y.
- ALDEN, Frederick Arthur (1912; 1913), Night Store Supt., Wm. Filene's Sons Co., Washington, Summer and Hawley Sts., Boston, and *for mail*, 60 Gorham St., Cambridge, Mass.
- ALDEN, George L. (1880), Vice-President, 1891-1893; Pres., Norton Co., and Pres. and Genl. Mgr., Norton Grinding Co., and *for mail*, 48 Queen St., Worcester, Mass.
- ALDEN, Herbert W. (1908), Ch. Engr., The Timken-Detroit Axle Co., Clark Ave., and 33 Warren Ave., Detroit, Mich.
- ALDEN, John Douglas (1912), Gas Engr., Asst. Supt., The United Gas Improvement Co., 83 Center St., Waterbury, Conn.
- ALDRICH, Chester S. (Junior, 1909), Treas., Gray-Aldrich Co., Inc., 33 Commercial Wharf, Boston, and 47 Mt. Bowdoin Terrace, Dorchester, Mass.
- ALDRICH, Guy W. (Junior, 1913), Asst. Engr., Metropolitan Engrg. Co., 1250 Atlantic Ave., and 97 Kenmore Pl., Brooklyn, N. Y.
- ALDRICH, Herbert Lincoln (Associate, 1900), Pres. and Treas., Aldrich Publishing Co., Publishers of International Marine Engineering, also The Boiler Maker, 17 Battery Pl., and Hotel San Remo, Central Park W. and 74th St., New York, N. Y.
- ALDRICH, J. Guy (Junior, 1903), present address unknown.
- ALDRICH, John Gladding (1901), V. P. and Genl. Mgr., N. E. Butt Co., and 223 Bowen St., Providence, R. I.
- ALDRICH, William Sleeper (1892), Life Member; Acting Prof. Elec. and Mech. Engrg., Univ. of Ariz., Tucson, Ariz.
- ALEXANDER, Chas. A. (1899; 1905), Pres. and Treas., The Alexander, Shumay & Utz Co., 16 State St., and *for mail*, 64 Cornell St., Rochester, N. Y.
- ALEXANDER, Edward E. (Associate, 1908), Ch. Draftsman, The Taylor-Wharton Iron & Steel Co., High Bridge, N. J.
- ALEXANDER, Harry (1895; 1899; 1901), Elec. and Mech. Contr. Engr., Astor Court Bldg., 18-20 W. 34th St., New York, and Great Neck, N. Y.
- ALEXANDER, Louis Albion (1901), Genl. Stores Keeper, Genl. Supt.'s Office, Am. Brass Co., and *for mail*, P. O. Box 514, Waterbury, Conn.
- ALEXANDER, Ludwell Brooke (1905; 1911), Genl. Sales Mgr., Bosch Magneto Co., 223 W. 46th St., and 616 W. 116th St., New York, N. Y.
- ALEXANDER, Magnus W. (1906), Genl. Elec. Co., West Lynn, Mass.

- ALEXANDER, Walter Putnam (1913), Engr. and Sales Mgr., Providence Engrg. Wks., Providence, R. I.
- ALFORD, Leon Pratt (1900; 1908), Editor, American Machinist, 505 Pearl St., New York, N. Y., and 45 Irving St., Montclair, N. J.
- ALGER, Harley C. (Junior, 1908), Mgr. Weigher Dept., The Kennicott Co., and *for mail*, 1334 N. Park Ave., Chicago Heights, Ill.
- ALLAART, Cornelius J. (Associate, 1913), 53 S. Walnut St., Dor-ranceton, Pa.
- ALLAN, Wm. T. (Associate, 1906), A. Allan & Son, 486 Green-wich St., New York, N. Y., and 728 Ocean Ave., Jersey City, N. J.
- ALLEN, Albert Mark (1903; 1908), Cons. Engr., 1900 Euclid Ave., and 178 Carlyon Rd., Cleveland, O.
- ALLEN, Benj. T. (1903), Ch. Engr., Harrisburg Fdy. & Mch. Wks., and *for mail*, 218 S. 13th St., Harrisburg, Pa.
- ALLEN, Charles M. (1901; 1903), Prof. Hyd. Engrg., Worcester Poly. Inst., and 10 Dean St., Worcester, Mass.
- ALLEN, Francis B. (1880), V. P., The Hartford Steam Boiler Inspc. & Ins. Co., 56 Prospect St., and 61 Willard St., Hart-ford, Conn.
- ALLEN, George L., Jr. (Junior, 1906), 25 Westmoreland Pl., St. Louis, Mo.
- ALLEN, Henry Asa (1900), Cons. Engr., City of Chicago, Rm. 403 City Hall, and 917 Galt Ave., Chicago, Ill.
- ALLEN, John L. (1911), Genl. Mgr., Jackson Motor Shaft Co., and 478 Van Buren St., Jackson, Mich.
- ALLEN, John Robins (1894; 1903), Prof. Mech. Engrg., Univ. of Mich., 221 New Engrg. Bldg., and 837 E. University Ave., Ann Arbor, Mich.
- ALLEN, Thomas Hampton (1912), Partner, Hoshall Simmons & Co., 90 S. Front St., and 25 Caruthers Court, Memphis, Tenn.
- ALLEN, Walter C. (Junior, 1905), Genl. Mgr., Yale & Towne Mfg. Co., 9 E. 40th St., New York, N. Y., and 181 Greyrock Pl., Stamford, Conn.; also, V. P., Canadian Yale & Towne Ltd., St. Catharines, Ont., Canada.
- ALLEN, William Duncan (1911), Cons. Engr., Htg. and Vent., 605 Peoples Savings Bank Bldg., Seattle, Wash.
- ALLEN, W. Harwell (Junior, 1911), Allen-Scales Engrg. Co., 930 Stahlman Bldg., and 114 17th Ave., N., Nashville, Tenn.
- ALLERTON, Robert Wade (1913), Supt. Erecting Dept., Henry R. Worthington, Harrison, and *for mail*, 216 Garfield Pl., South Orange, N. J.
- ALLISON, Daniel K. (1913), Ch. Draftsman and Mch. Designer, The J. H. Day Co., 1144 Harrison Ave., and *for mail*, 2723 Euclid Ave., Cincinnati, O.
- ALLISON, John Franklin (Junior, 1910), Mech. Engrg. Dept., Univ. of Pa., Philadelphia, Pa., and *for mail*, P. O. Box 106, Riverton, N. J.
- ALLISON, Robert (1884), Mech. Engr., Ret., Port Carbon, Pa.

- ALLMAN, John H. (1913), Mgr. Wks., Stand. Steel Car Co., Forged Steel Wheel Co., and *for mail*, 228 W. Pearl St., Butler, Pa.
- ALLYN, Robert S. (Associate, 1909), Counsel and Expt. in Pat. Causes, 16 Exch. Pl., New York, and 24 Irving Pl., Brooklyn, N. Y.
- ALMIRALL, Juan A. (1892; 1904), Htg. and Vent. Engr., Dominick and Clarke Sts., New York, and 97 McDonough St., Brooklyn, N. Y.
- ALMQUIST, Karl (1911), Ch. Draftsman, A. S. Cameron Steam Pump Wks., Phillipsburg, N. J., and 523 High St., Easton, Pa.
- ALMY, Darwin (1893), Pres., Almy Water Tube Boiler Co., 178-184 Allen Ave., Providence, R. I.
- ALSBERG, Julius (Junior, 1905), Cons. Engr., for Frank M. Peters, 11 E. 24th St., and *for mail*, 56 W. 95th St., New York, N. Y.
- ALTA, Lucas Nicholas (1896), Mech. Engr. and Sole Member of Firm, L. N. Alta & Co., 48 Binnenkant, Amsterdam, and *for mail*, Breedeweg, 26, Watergraafsmeer, Holland.
- ALVORD, C. H. (Associate, 1903), V. P. and Genl. Mgr., The Hendey Mch. Co., and 115 Litchfield St., Torrington, Conn.
- AMES, Geo. Edgar (1904), Mech. Supt., Lawrence Mfg. Co., and 119 Hall St., Lowell, Mass.
- AMES, John McEwen (1913), Mech. Engr., Am. Car & Fdy. Co., 165 Broadway, and 102 Waverly Pl., New York, N. Y.
- AMES, Joseph H. (1898), Ch. Engr., Am. Car & Fdy. Co., 414 Ry. Exch., and 5438 Harper Ave., Chicago, Ill.
- AMMEN, Francis DuPont (1913), Pat. Atty., 2 Rector St., New York, and 174 Franklin Pl., Flushing, L. I., N. Y.
- AMSLER, Walter O. (Junior, 1897), Contr. Engr., Wabash Bldg., Pittsburgh, and 129 Lincoln Ave., Edgewood Park, Pa.
- ANCONA, John F. (1904; 1912), Engr. Design and Constr., Eastman Kodak Co., Kodak Park Wks., and *for mail*, 190 Birr St., Rochester, N. Y.
- ANDERSEN, Johan Marinius (1908), Pres., Albert & J. M. Anderson Mfg. Co., 289 A St., Boston, and 89 Evans St., Dorchester Center, Mass.
- ANDERSON, Emanuel (Associate, 1907), Sargent & Lundy, and *for mail*, 5301 Kenmore Ave., Chicago, Ill.
- ANDERSON, Frederick Paul (1908), Prof. Mech. Engrg., Dean and Dir. College of Mech. and Elec. Engrg., State Univ. of Ky., Box 294, and 147 Kentucky Ave., Lexington, Ky.
- ANDERSON, Harold Bentley (1903; 1911), Ch. Engr., The Winton Motor Carriage Co., and *for mail*, 10,117 Clifton Blvd., Cleveland, O.
- ANDERSON, Harry Warfield (Associate, 1907), Div. Sales Mgr., Am. Motors Co., Indianapolis, Ind., and *for mail*, 5 E. 3d St., Atlanta, Ga.
- ANDERSON, Henry, Jr. (Junior, 1913), Inspr. Automatic Sprinkler Dept., N. Y. Fire Ins. Exch., 123 William St., and *for mail*, 400 W. 152d St., New York, N. Y.

- ANDERSON, Henry Clay (1912), Prof. Mech. Engrg., Univ. of Mich., Engrg. Bldg., Ann Arbor, Mich.
- ANDERSON, Howard L. (Junior, 1907), M. M., Vandergrift Wks., Am. Sheet & Tin Plate Co., Vandergrift, Pa.
- ANDERSON, John Wallace (Junior, 1913), Engr., Elec. Boat Co., Groton, Conn.
- ANDERSON, Leslie Douglass (Associate, 1906), Supt., U. S. Smelting Co., Midvale, Utah.
- ANDERSON, Robert (1907), Ch. Engr., Proctor & Gamble Co., Ivorydale, and *for mail*, Vermont Ave., Sta. R., Cincinnati, O.
- ANDERSON, Robert Marshall (1898), Stevens Inst. of Tech., Hoboken, N. J.
- ANDERSON, Ross (1913), Factory Supt., Flannery Bolt Co., Bridgeville, and 301A Saybrook Apt., Pittsburgh, Pa.
- ANDERSSON, Pelle (1913), Mech. Engr., Allis-Chalmers Mfg. Co., West Allis, and *for mail*, 883 S. Pierce St., Milwaukee, Wis.
- ANDREI, Camillo (Junior, 1911), Società Nazionale dei Radiatori, Borgo S. Giovanni, Brescia, Italy.
- ANDREW, James D. (1904), 39 Boylston St., Boston, Mass.
- ANDREWS, David Herbert (1913), Pres., The Boston Bridge Wks., Inc., 47 Winter St., Boston, and *for mail*, 38 Lake Ave., Newton Center, Mass.
- ANDREWS, Jacob R. (1906), Pres., Hyde Windlass Co., Bath, Me.
- ANDREWS, William Johnston (Junior, 1898), Mech. Engr., P. O. Box 231, and 105 E. North St., Raleigh, N. C.
- ANDRIX, Earl Russell (Junior, 1909), Asst. Supt. of Power, Columbus Ry. & Light Co., Spring St. Power Sta., and *for mail*, 828 Bellows Ave., Columbus, O.
- ANGSTROM, Carl (1883), Cons. Engr., Skepparegatan 5, Stockholm, Sweden.
- ANGSTROM, C. Jonas (1908), Mackintosh, Hemphill & Co., and *for mail*, 625 Clyde St., Pittsburgh, Pa.
- ANGUS, Robert (1891), Cons. Engr., 47 King St., W., Toronto, and 514 William St., London, Ont., Canada.
- ANGUS, Robert W. (1901; 1908), Prof. Mech. Engrg., Faculty of Applied Science and Engrg., Univ. of Toronto, Toronto, Ont., Canada.
- ANNAN, Arthur H. (1909), Supt., R. I. Tool Co., and 27 Larch St., Providence, R. I.
- ANTHONY, Gardner C. (1884), Dean Engrg. Sch., Tufts College, Tufts College P. O., Mass.
- ANTISELL, Frank Linden (1905), Asst. Supt., Raritan Copper Wks., and 147 Water St., Perth Amboy, N. J.
- APPLETON, Chas. B. (1894), Mech. Engr., Netherlands Rd., Brookline, Mass.
- APPLETON, Henry W. (Junior, 1906), Mech. Supt. and Asst. Mgr., Passaic Print Wks., and *for mail*, 243 Van Houten Ave., Passaic, N. J.
- APPLETON, Wm. Day (Junior, 1905), Supt., The Guanajuato Power & Elec. Co., Apartado 23, Zamora, Michoacan, Mex.

- APPS, Chas. Henry (1899), Am. Loco. Co., 30 Church St., New York, N. Y.
- ARBOGAST, Victor R. (1909), Wks. Mgr., Natl. Radiator Gesellschaft, Postfach 95, and Babenbergerring 12, Wiener-Neustadt, Austria.
- ARCHER, Edward R. (1890), Ch. Engr., Tredegar Co., and *for mail*, 303 W. Franklin St., Richmond, Va.
- ARD, C. E. (1908), Engr. and Engrg. Contr., J. H. Scruggs & C. E. Ard, 402 Am. Trust Bldg., and 1769 13th Ave., S., Birmingham, Ala.
- ARMES, George A. (1912), Engr.-in-Ch., Union Iron Wks. Co., and *for mail*, 1331 Fourth Ave., San Francisco, Cal.
- ARMES, William Addison (1913), Supt. and Res. Engr., Bird & Son, Pont Rouge, Que., Canada, and *for mail*, 235 Railroad Ave., Norwood, Mass.
- ARMSTEAD, Frank C. (1906), Engr. Stoker Dept., Westinghouse Mch. Co., 165 Broadway, New York, and *for mail*, 1071 E. 17th St., Brooklyn, N. Y.
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- ARMSTRONG, Frank Hall (1908), Mech. Engr., Penn Iron Min. Co., Republic Iron Co., Vulcan, Mich.
- ARMSTRONG, Walter J. (Junior, 1907), Mech. Engr., Jeffrey Mfg. Co., and *for mail*, 900 Neil Ave., Columbus, O.
- ARMSTRONG, Wm. M. (Junior, 1894), Corrugated Bar Co., 402 Mutual Life Bldg., Buffalo, N. Y.
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- ARNOLD, Edwin E., (1900; 1906), Ch. Engr. and Sales Mgr., Houk Mfg. Co., 1700 Elmwood Ave., and 508 W. Delevan Ave., Buffalo, N. Y.
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- ARNOLD, Otto, Jr. (Junior, 1905), Mgr., Friedrich Stolzenberg & Co., G. m. b. H., Berlin, Reinickendorf-West, Germany.
- ARNOLD, Walter S. (1901), M. M. and Ch. Engr., Grosvenordale Co., and P. O. Box 106, Grosvenordale, Conn.
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- ASHLEY, Frank M. (Junior, 1894), Pat. Atty. and Cons. Engr., Ashley & Cohen, Tribune Bldg., 154 Nassau St., New York, and 378 E. 7th St., Brooklyn, N. Y.
- ASHTON, Albert Carter (1901), Treas., Ashton Valve Co., 271 Franklin St., Boston, and *for mail*, 33 Columbus Ave., Somerville, Mass.
- ASHTON, Walter S. (1908), Ch. Engr., St. Louis Brewing Asso., and *for mail*, 1727 Cora Ave., St. Louis, Mo.
- ASHWORTH, Daniel (1885), Life Member; Cons. Engr., 67 W. Ridge Ave., Crafton, Pa.
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- ASTROM, Carl Pontus, (1912), Ch. Engr., M. H. Treadwell Co., 140 Cedar St., New York, N. Y., and 14 Chestnut St., East Orange, N. J.
- ASTROM, John (1900; 1903), Mech. Engr., 611 W. Wayne St., Fort Wayne, Ind.
- ATKINS, David Fowler (1907), 727 Custom House Bldg., New York, N. Y.
- ATKINS, Harold B. (1903), Cons. Engr. and Certified Pub. Acct., 90 West St., and *for mail*, 606 W. 116th St., New York, N. Y.
- ATTERBURY, Wm. Wallace (1894), V. P. in Charge of Operation, Pa. R. R. Co., Broad St. Sta., Philadelphia, and Radnor, Pa.
- ATWOOD, Geo. D. (Junior, 1903), Pres., George D. Atwood Co., 149 Broadway, Pres., Uehling Sales Co., 95 Liberty St., New York, and Pres., Decorated Metal Mfg. Co., 196 Degraw St., and 514 E. 16th St., Brooklyn, N. Y.
- ATWOOD, William S. (1908), Ch. Engr., Canadian Car & Fdy. Co., Ltd., and Canadian Steel Foundries, Ltd., Transportation Bldg., and *for mail*, 225 Metcalf Ave., Montreal, Que., Canada.
- AUE, Joseph E. (1899), Ch. Engr. Gas and Oil Eng. Dept., De La Vergne Mch. Co., foot E. 138th St., New York, N. Y.
- AULL, Jerome J. (1906; Associate-Member, 1913), Mech. Engr., The Lunkenheimer Co., and 837 Academy Ave., Cincinnati, O.
- AUSTIN, Adolph O. (Junior, 1905), Secy., Karl Wegeman Co., Inc., 90 West St., New York, and *for mail*, 46 Treno St., New Rochelle, N. Y.
- AUSTIN, William Arthur (1913), Ch. Mech. Engr., Lima Loco. Corp., S. Main St., and *for mail*, 415 S. Cole St., Lima, O.
- AUSTIN, William F. (1905), Supt., Eddystone Plant, Belmont Iron Wks., Eddystone, Pa.

- AUSTIN, William S. (1902; 1906), Supv. Engr., Kodak Park Wks., Eastman Kodak Co., and 205 Driving Park Ave., Rochester, N. Y.
- AUSTROM, Charles A. (1912), Asst. Ch. Engr., The Travelers Ins. Co. and The Travelers Indemnity Co., Hartford, Conn.
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- AVERILL, E. A. (Associate, 1912), Managing Editor, American Engineer, 2201 Woolworth Bldg., New York, and 341 Seneca Ave., Mt. Vernon, N. Y.
- AVNSOE, Thorkild (Junior, 1913), Supt., Tex. Portland Cement Co., Cement, Tex.
- AYARS, William Stewart (1913), Prof. Mech. and Elec. Engrg., Nova Scotia Tech. College, Halifax, N. S., Canada.
- AYERS, Hobart B. (1903), Genl. Mgr., H. K. Porter Co., Pittsburgh, and *for mail*, 7211 Mead St., Homewood, Pittsburgh, Pa.
- AYERS, Norwood B. (1908), Mech. Engr., Champion Coated Paper Co., and 620 Main St., Hamilton, O.
- AYLSWORTH, Joseph W. (Junior, 1907), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, and 141 St. Marks Pl., St. George, S. I., N. Y.
- AYRES, Richard S. (Junior, 1913), Industrial Engr., Rice & Hutchins, Inc., 14-20 High St., and Technology Chambers, Boston, Mass.
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- BABBITT, Edward F. (1909), Engr. with F. L. Packard, and *for mail*, 406 S. Ohio Ave., Columbus, O.
- BABCOCK, Stephen E. (1881), Mech. and Civ. Engr., 55 Mann Bldg., and 131 Oneida St., Utica, N. Y.
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- BACHARACH, Herman (1913), Mech. Engr., 1009 Hartje Bldg., 14 Wood St., and 752 Sheridan Ave., Pittsburgh, Pa.
- BACHELDER, Joseph Elmer (Junior, 1905), Mgr. Steam Pump Mfg. Dept., Fairbanks, Morse Mfg. Co., and *for mail*, 816 Park Ave., Beloit, Wis.
- BACHMAN, Robert A. (1911), V. P. and Genl. Mgr., Edison Storage Battery Co., Orange, and 100 Watson Ave., West Orange, N. J.
- BACKLIN, Axel F. (1902), Constr. Engr., Am. Steel & Wire Co., Frick Bldg., Pittsburgh, Pa.
- BACON, Charles James (1905; 1907), Steam Engr., Ill. Steel Co., South Chicago, and 7334 Crandon Ave., Chicago, Ill.
- BACON, Earle C. (1885; 1886), Contr. and Cons. Engr., Have-meyer Bldg., New York, and 81 Hillcrest Ave., Park Hill, Yonkers, N. Y.

- BACON, Frederick T. H. (1908), Cons. Engr., Ewing, Bacon & Henry, Architects Bldg., 101 Park Ave., and 344 W. 72d St., New York, N. Y.
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- BAEHR, William Alfred (1903), Cons. Engr., Peoples Gas Bldg., Chicago, Ill.
- BAGG, Samuel F. (1896), Dist. Agt., The Fidelity & Casualty Co., Burdett Bldg., and 96 Fourth St., Troy, N. Y.
- BAGGALEY, Ralph (Associate, 1891), Life Associate; Pres., Am. Pyritic-Conversion Co., 1291 Shady Ave., E. E., Pittsburgh, Pa.
- BAILEY, Alex. D. (Junior, 1910), Asst. Ch. Engr., Stas. 2 and 3, Commonwealth Edison Co., Chicago, and *for mail*, 21 Elmwood Ave., La Grange, Ill.
- BAILEY, Elton D. (1912), Supt. Power and Equip., Northwestern States Portland Cement Co., and *for mail*, 120 Tenth St., Mason City, Ia.
- BAILEY, Ervin G. (1903; 1912), Mech. Engr. and Partner, Fuel Testing Co., 220 Devonshire St., Boston, and 1057 Walnut St., Newton Highlands, Mass.
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- BAILEY, Harry E. B. (1912), Engr. of Wks., Am. Optical Co., and *for mail*, 54 Chapin St., Southbridge, Mass.
- BAILEY, Hazil Harding (Junior, 1910), Constr. Engr., E. W. Clark & Co., 910 Wyandotte Bldg., Columbus, O., and *for mail*, Alton, Ill.
- BAILEY, H. Morell (Junior, 1909), Safety Engr., Carnegie Steel Co., Duquesne, Pa.
- BAILEY, T. S. (1896; 1905), Pacific Coast Mgr., Elec. Boat Co., Seattle, Wash.
- BAILEY, William J. (Junior, 1910), Mech. Engr., United Coal Co., Pa. Bldg., and *for mail*, 5831 Springfield Ave., Philadelphia, Pa.
- BAILLIERE, Marion Valentine (Junior, 1913), Asst. Engr., Lake Shore & Mich. So. Ry. Co., Cleveland, and *for mail*, 151 W. Main St., Norwalk, O.
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- BAKER, Charles H. (Junior, 1903), Mech. Engr., Public Service Elec. Co., Newark, and 8 Watson Ave., East Orange, N. J.
- BAKER, Charles Whiting (1893), Vice-President, 1909-1911; Editor-in-Chief, Engineering News, 505 Pearl St., New York, N. Y., and 20 S. Mountain Ave., Montclair, N. J.
- BAKER, Dickerson G. (1905), Dir. Genl., Fabrication, Carels Frères, Ghent, Belgium.

- BAKER, Erich F. (Junior, 1912), Commercial Engr., The Wickes Boiler Co., 90 West St., New York, N. Y.
- BAKER, Frank D. (1893), Ch. Engr. Colo. Dept., Am. Smelting & Refining Co., 830 First Natl. Bank Bldg., and *for mail*, 3221 Franklin St., Denver, Colo.
- BAKER, Fred L. (1912), Robins Conveying Belt Co., 1070 Old Colony Bldg., Chicago, and *for mail*, 15,332 Vine Ave., Harvey, Ill.
- BAKER, John C. W. (1904), M. M., Rubber Regenerating Co., and *for mail*, 153 Millville Ave., Naugatuck, Conn.
- BAKER, Orth Kitchell (1913), Charge Drafting Rm. Cement Plant Dept., Riegos y Fuerza del Ebro, S. A., Barcelona, and *for mail*, Apartado 1, Tremp, Lerida, Spain.
- BAKER, William E. (1902), W. E. Baker & Co., 105 W. 40th St., New York, N. Y.
- BALDWIN, Abram T. (1899; 1902), Life Member; Pres. and Genl. Mgr., Precision Instrument Co., 102 Randolph St., Detroit, and *for mail*, Grosse Point, Mich.
- BALDWIN, Alden Welling (Junior, 1912), Engrg. Dept., The Deane Steam Pump Co., and *for mail*, 720 Hampden St., Holyoke, Mass.
- BALDWIN, Bert L. (1890), Mech. Engr., 72-75 Perin Bldg., and *for mail*, 2529 Bell Pl., Cincinnati, O.
- BALDWIN, C. Kemble (1905), West. Mgr., Robins Conveying Belt Co., 1070 Old Colony Bldg., and 5438 Harper Ave., Chicago, Ill.
- BALDWIN, Henry Sill (1913), Mech. Engr., Genl. Elec. Co., West Lynn, Mass.
- BALDWIN, Oscar H. (1889), London Dist. Mgr., British Westinghouse Elec. & Mfg. Co., Ltd., London, England.
- BALDWIN, Wm. J. (1882), Cons. Engr., 501 World Bldg., New York, and 151 Halsey St., Brooklyn, N. Y.
- BALKWILL, Stephen (1903), Mech. Engr., Cleveland Frog & Crossing Co., and *for mail*, 1808 E. 82d St., Cleveland, O.
- BALL, Bert Chas. (1898; 1904), V. P. and Genl. Mgr., Willamette Iron & Steel Wks., and 482 Harrison St., Portland, Ore.
- BALL, Frank H. (1883), Manager, 1888-1891; Vice-President, 1894-1896; Cons. Engr., Am. Eng. Co., Bound Brook, and *for mail*, 97 Rockview Ave., Plainfield, N. J.
- BALL, Frederick Ossian (1901; 1907), Genl. Mgr., Am. Eng. & Elec. Co., Bound Brook, and *for mail*, 44 Washington Ave., Plainfield, N. J.
- BALL, Herman F. (1913), Pres., Economy Devices Corp., 30 Church St., and 404 Riverside Drive, New York, N. Y.
- BALL, Philip De Catesby (1899), Mfr., 3003 N. Broadway, St. Louis, Mo.
- BALL, Walter Seaver (1900), United Shoe Mchy. Co., and *for mail*, 32 Pickett St., Beverly, Mass.
- BALLARD, Frederick W. (1907), Engr. of Constr., City of Cleveland Municipal Elec. Light Plant, 319 City Hall, Cleveland, O.

- BALLENTINE, William Irwin (1912), Supt., Link-Belt Co., and *for mail*, 31 The Cambridge, Indianapolis, Ind.
- BALLIN, Alfred E. (Associate, 1906), Mgr. Gas and Oil Eng. Dept., Snow Steam Pump Wks., and *for mail*, 518 Linwood Ave., Buffalo, N. Y.
- BALLINGER, Walter Francis (1913), Member of Firm, Ballinger & Perrot, Archs. and Engrs, 1211 Arch St., Philadelphia, Pa.
- BALTZELL, W. H. (1910), Ch. Engr., Pittsburgh Crucible Steel Co., Midland, and *for mail*, 197 College Ave., Beaver, Pa.
- BALZ, George A. (Junior, 1912), Mgr., Treas. and Secy., Didier-March Co., P. O. Box 327, Perth Amboy, and Clinton Pl., P. O. Box 541, Metuchen, N. J.
- BALZER, Fritz (1911; 1913), Mech. Engr. Charge of Drafting Dept., Troy Laundry Mch. Co., Ltd., La Salle and 23d Sts., and *for mail*, 7405 Union Ave., Chicago, Ill.
- BANCEL, Paul August (Junior, 1912), Mech. Engr., The Geo. H. Gibson Co., 1119 Tribune Bldg., New York, N. Y.
- BANCKER, James William (1913), Asst. Genl. Supt., West. Elec. Co., Hawthorne Sta., Chicago, and 400 N. Scoville Ave., Oak Park, Ill.
- BANCROFT, Charles Foster (1911), V. P., Manchester Elec. Co., Elec. Engr., Mass. Elec. Cos., Supt. M. P. and Mch., Bay State St. Ry. Co., 84 State St., and 159 Bay State Rd., Boston, Mass.
- BANCROFT, George Arthur (Junior, 1910), Designer, Aultman & Taylor Mch. Co., Diamond St., and *for mail*, 26 Poplar St., Mansfield, O.
- BANCROFT, J. Sellers (1880), Manager, 1909-1911; Genl. Mgr. and Mech. Engr., Lanston Monotype Mch. Co., 24th and Locust Sts., and *for mail*, 917 Pine St., Philadelphia, Pa.
- BANCROFT, Wilfred (1912), Sales Mgr., Lanston Monotype Mch. Co., 24th and Locust Sts., Philadelphia, Pa.
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- BANKS, Thomas Dent (Junior, 1910), Supt., Municipal Reduction Plant, and *for mail*, 163 W. 9th Ave., Columbus, O.
- BANNISTER, John C. (1902), Mgr. Kewanee Wks., Natl. Tube Co., and 519 S. Tremont St., Kewanee, Ill.
- BANNON, Leo Matthew (Junior, 1908), 121 Oakland St., Mansfield, Mass.
- BANTA, John Sydney (1912), Ch. Draftsman Waukegan Wks., Am. Steel & Wire Co., Waukegan, Ill.
- BAQUET, Camille, Jr. (1911), Mech. Engr., Watts-Campbell Co., Newark, and *for mail*, Spotswood, N. J.
- BARBER, Clarence M. (1904), Civ. Engr., Smith, Hinchman & Grylls, and *for mail*, 630 Cass Ave., Detroit, Mich.
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- BARBOUR, George Hurlbut (1912), Asst. Ch. Mech. Engr., Carnegie Steel Co., Carnegie Bldg., and 6043 Stanton Ave., Pittsburgh, Pa.
- BARBOZA, Arthur S. (1906), Rua Senador Pompeu, 268, E. F. C. B., Rio de Janeiro, Brazil, S. A.
- BARGER, Lorin W. (1913), Ch. Draftsman, Davenport Loco. Wks., and *for mail*, 113 E. 7th St., Davenport, Ia.
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- BARKLEY, Matthew B. (Junior, 1901), V. P., Cameron & Barkley Co., Genl. Asbestos & Rubber Co., 160 Meeting St., and 137 Rutledge Ave., Charleston, S. C.
- BARLOW, Edwin H. (Junior, 1913), Mech. Engr., Stand. Oil Co., and 1164 E. Jersey St., Elizabeth, N. J.
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- BARNES, John S. (1913), Supt. and V. P., W. F. & John Barnes Co., and 1512 Harlem Ave., Rockford, Ill.
- BARNES, Stuart Gray (1899; 1902), Engr., Solvay Process Co., and 310 West Blvd., Detroit, Mich.
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- BARNES, William O. (1908), Mech. Engr., Iver-Johnson Arms & Cycle Wks., and *for mail*, 28 Winter St., Fitchburg, Mass.
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- BARNUM, Geo. S. (1887), V. P., Bigelow Co., and 237 E. Rock Rd., New Haven, Conn.
- BARNUM, Starr H., 2d (Junior, 1912), Secy., The Bigelow Co., New Haven, Conn.
- BARNUM, Thomas Edson (1913), Ch. Engr., Cutler-Hammer Mfg. Co., and *for mail*, 3502 Cedar St., Milwaukee, Wis.
- BARON, Leopold (Junior, 1913), Engr. of Constr., New Edison Chem. Wks., Silver Lake, and *for mail*, 172 Hillside Ave., Newark, N. J.

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- BARRATT, Edgar Grant (1888), Pres., Union Bag and Paper Co., 17 Battery Pl., New York, N. Y., and *for mail*, 133 Harrison St., East Orange, N. J.
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- BARRETT, Walter A. (Junior, 1906), Sales Engr., The Bass Fdy. & Mch. Co., and *for mail*, 905 Wildwood Ave., Fort Wayne, Ind.
- BARRON, Claude M. (Junior, 1910), Cons. Engr., R. W. Cameron & Co., 23 S. William St., New York, N. Y., and 2009 Forest Ave., St. Louis, Mo.
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- BASSHOR, Chas. Hazeltine (1908), Cambridge, Md.
- BATCHELDER, Asa Fred (1903), Engr. Ry. Loco. Dept., Genl. Elec. Co., and R. F. D. 2, Schenectady, N. Y.
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- BATES, Charles Jarvis, Jr. (1913), Factory Engr., West. Elec. Co., 463 West St., New York, N. Y., and *for mail*, Highwood, N. J.
- BATES, Daniel Moore (1912), Agt., Lewiston Bleachery & Dye Wks., and cor. Pine and Webster Sts., Lewiston, Me.
- BATES, Edward Carrington (1899), 122 Marlboro St., Boston, Mass.
- BATES, Edward P. (1891), Life Member; Prin., 228 W. Water St., Syracuse, N. Y.
- BATES, Francis Edgar (Associate, 1913), Dept. Mgr., The Am. Thread Co., 260 W. Broadway, New York, N. Y.
- BATHGATE, Owen Hamill (1912), Wks. Steam Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and 1213 Center St., Wilkinsburg, Pa.
- BATT, William Lorraine (Junior, 1911), Ry. Engr., The Hess-Bright Mfg. Co., Front St. and Erie Ave., Philadelphia, and *for mail*, 256 Mather Ave., Jenkintown, Pa.
- BATTEN, Percy H. (1901; 1910), Wks. Mgr., Wallis Tractor Co., 844 E. 72d St., and 1787 E. 87th St., Cleveland, O.
- BAUDERMANN, Joseph A. G. (Junior, 1913), Public Service Ry. Co., Broad St., Newark, N. J.
- BAUER, Chas. L. (1900; 1901), Pres., The Bauer Bros. Co., and 1215 E. High St., Springfield, O.
- BAUER, Thomas (1912), Pres. and Genl. Mgr., Lafayette Box Board & Paper Co., Lafayette, Ind.
- BAUM, Frank G. (1906), Cons. Engr., Ch. Engr. Hydroelectric Dept., Pacific Gas & Elec. Co., 1404 Chronicle Bldg., San Francisco, Cal.

- BAUM, Robert Stanton (Junior, 1912), Mgr., Union Gas Eng. Co., 126 N. Los Angeles St., and *for mail*, 1749 Cherokee Ave., Los Angeles, Cal.
- BAUMGARTNER, Charles Greene (1913), Designing Engr. Mech. Engrg. Dept., Am. Bridge Co., Rm. 1325, 72 W. Adams St., and *for mail*, 5053 Champlain Ave., Chicago, Ill.
- BAUSCH, Carl L. (1911; Associate-Member, 1913), Asst. Mech. Supt., Bausch & Lomb Optical Co., 635 St. Paul St., and 121 N. Fitzhugh St., Rochester, N. Y.
- BAUSCH, Frederick E. (1904), Mgr., The Hooven Owens Rentschler Co., 1216-1217 Chemical Bldg., and 6133 Berlin Ave., St. Louis, Mo.
- BAUSH, William H. (1904), Sales Mgr., Natl. Equip. Co., and 64 Magnolia Terrace, Springfield, Mass.
- BAVIER, Charles Samuel (Associate, 1907), Ch. Engr., Metro. Life Ins. Co. Bldg., 1 Madison Ave., New York, N. Y.
- BAXTER, Burke Morgan (Junior, 1908), Mech. Engr. with H. B. Prather, 662 Rockefeller Bldg., and The Randall, 8808 Carnegie Ave., Cleveland, O.
- BAYFIELD, Henry Arthur (1913), Mech. Engr., 1154 Pacific St., Vancouver, B. C., Canada.
- BAYLE, Emile J. (1907), Genl. Engr., Am. Beet Sugar Co., and *for mail*, 1811 Grant St., Denver, Colo.
- BAYLEY, Guy Lynfield (1911), Ch. Mech. and Elec. Engr., Panama-Pacific Internatl. Exposition Co., Service Bldg., Exposition Grounds, San Francisco, Cal.
- BAYLEY, W. (1904), Pres. and Ch. Engr., The Wm. Bayley Co., and *for mail*, 521 S. Fountain Ave., Springfield, O.
- BAYLIS, Arthur Raymond (1905; 1906), Ch. Draftsman for H. G. Stott, 59th St. Power House, I. R. T. Co., New York, and *for mail*, 1815 Ave. K, Flatbush, Brooklyn, N. Y.
- BAYLIS, Robt. Nelson (1892), Pres. and Engr., The Baylis Co., Bloomfield, N. J.
- BAYNE, George Henry (1911), Mech. Engr., Pa. Coal & Coke Corp., 17 Battery Pl., and 561 W. 141st St., New York, N. Y.
- BEACH, Charles S. (Junior, 1885), Designer and Machinist, 745 Main St., Bennington, Vt.
- BEACH, Harold K. (Junior, 1904), Lockwood, Greene & Co., 616 Rhodes Bldg., Atlanta, Ga.
- BEADENKOPF, George (1912), Ch. Engr. Gas Div., Consldt. Gas, Elec. Light & Power Co., Lexington and Liberty Sts., and 2604 Roslyn Ave., Baltimore, Md.
- BEALL, Frank F. (Junior, 1902), Factory Mgr., Packard Motor Car Co., and 59 Hendrie Ave., Detroit, Mich.
- BEAMAN, Elmer A. (1891), Beaman & Smith Co., Gordon and Reynolds Ave., and *for mail*, 237 Washington Ave., Providence, R. I.
- BEAN, Irving McC. (Junior, 1903), Pres., Milwaukee Boller Co., 629 Wells Bldg., and 4 Prospect Ave., Milwaukee, Wis.
- BEAN, William Lloyd (1912), Mech. Rep., Jacobs-Shupert U. S. Firebox Co., 339 Railway Exch., Chicago, Ill.

- BEAR, Oliver L. (1913), Sales Engr. and Mgr., Benj. F. Kelley & Son, Inc., of New York, N. Y., Ry. Exch. Bldg., and 1354 Kenilworth Ave., Chicago, Ill.
- BEARDSLEY, Arthur (1883), Life Member; Emeritus Prof. Engrg., Swarthmore College, Swarthmore, Del. Co., Pa.
- BEATIE, Cecil Emile (Junior, 1912), Engr., Pipe Line Dept., Associated Oil Co., 619 Sharon Bldg., and 1849 Jackson St., San Francisco, Cal.
- BEBB, J. C. (Associate, 1913), Dist. Service Mgr., Otis Elev. Co., 2300 Stockton St., San Francisco, Cal.
- BECHTEL, August L. (Junior, 1911), Mech. Engr., The Cleveland Punch & Shear Wks. Co., and *for mail*, 10,531 Lee Ave., N. E., Cleveland, O.
- BECHTEL, John Adams (Associate, 1900), Williamsburg, Va.
- BECK, Charles Edgar (Junior, 1911), Oil Eng. Sales Mgr., De La Vergne Mch. Co., 417 S. Dearborn St., and *for mail*, 1419 Arthur Ave., Chicago, Ill.
- BECK, James Doughty (1906), Supt. Constr., Shakespeare Iron Wks., 913 Girod St., and *for mail*, 2331 Constance St., New Orleans, La.
- BECK, Matthias A. (1886), 294 Greenbush St., Milwaukee, Wis.
- BECKER, Albert John (1912), Prof. Applied Mathematics, Univ. of N. D., and *for mail*, 915 Belmont Ave., Grand Forks, N. D.
- BECKER, Luther (Associate, 1913), Sales Engr., U. S. Steel Products Co., Rm. 1234, 30 Church St., New York, N. Y., and P. O. Box 137, Schuylkill Haven, Pa.
- BECKJORD, Walter C. (Associate-Member, 1913), Elec. Engr., St. Paul Gas Light Co., and *for mail*, 586 Portland Ave., St. Paul, Minn.
- BECKSTRAND, Elias H. (1908), Prof. Mech. Engrg., Univ of Utah, Salt Lake City, Utah.
- BECKWITH, Henry Clay (1913), Hotel Vendome, Columbus, O.
- BEEBE, Murray Charles (Associate, 1904), Prof. Elec. Engrg., Univ. of Wis., and 520 N. Pinckney St., Madison, Wis.
- BEECHER, Henry Ward (Junior, 1908), Mgr. Seattle Office, Chas. C. Moore & Co., 618 Mutual Life Bldg., and The Hillcrest, 17th and E. Howell Sts., Seattle, Wash.
- BEECHER, J. F. (Associate, 1908), United Gas Improvement Co., and *for mail*, 4410 N. 18th St., Philadelphia, Pa.
- BEEKMAN, John V. (1889), Genl. Supt., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and 216 W. 8th St., Plainfield, N. J.
- BEHN, Carl (1903), Buffalo Refrig. Mch. Co., 126 Liberty St., New York, N. Y., and 24 Nassau Pl., East Orange, N. J.
- BEHR, Hans C. (1891), Cons. Engr., Rm. 1320, 233 Broadway, New York, and 14 Lynwood Rd., Scarsdale, N. Y.
- BEHREND, Bernard A. (1909), Cons. Engr., 434 John Hancock Bldg., 200 Devonshire St., Boston, and Brookline, Mass.
- BEHREND, Ernst Richard (1900), Pres. and Genl. Mgr., Hammermill Paper Co., Erie, Pa.
- BELL, Andrew Lane (Associate-Member, 1913), Mech. Engr., Isthmian Canal Com., Culebra, Canal Zone.

- BELL, David (1912), Engr., Buffalo Fdy. & Mch. Co., and *for mail*, 911 Lafayette Ave., Buffalo, N. Y.
- BELL, John Everett (Associate, 1903), Mech. Engr., Babcock & Wilcox Co., 85 Liberty St., and 479 W. 152d St., New York, N. Y.
- BELL, Joseph M. (1899), Mech. Engr., Reading Iron Co., and *for mail*, 140 N. 4th St., Reading, Pa.
- BELL, Raymond T. (1913), Ch. Draftsman, The Gramophone Co., Ltd., Hayes, Middlesex, England.
- BELLOWS, Lewis Edward (Associate, 1898), 24 Milk St., Boston, and 1815 Beacon St., Brookline, Mass.
- BENCH, Alfred Rittscher (Junior, 1907), The Taylor-Wharton Iron & Steel Co., High Bridge, N. J.
- BENEDICT, Bruce Willet (1912), Dir. Shop Laboratories, Dept. Mech. Engrg., Univ. of Ill., Urbana, Ill.
- BENET, Laurence V. (1892), V. P., Société Anonyme des Anciens Etablissements Hotchkiss & Cie., 6, route de Gonesse, St. Denis, Seine, and *for mail*, 1, Ave. de Camoens, Paris, France.
- BENJAMIN, Chas. Henry (1892), Dean Schs. of Engrg., Purdue Univ., and 607 University St., Lafayette, Ind.
- BENNER, Henry Lewis (Junior, 1910), Pres. and Genl. Mgr., Benner Mfg. Co., 224 S. 15th St., Philadelphia, Pa.
- BENNET, Orville G. (Junior, 1907), V. P. Genl. Motors Export Co., 11 Broadway, New York, N. Y.
- BENNETT, Chas. W. (1904), Asst. to Pres., Am. Sheet & Tin Plate Co., 1320 Frick Bldg., and 6300 Darlington Rd., Pittsburgh, Pa.
- BENNETT, Geo. G. (1903; 1913), Mill Supt., Ludlow Mfg. Associates, and *for mail*, P. O. Box 75, Ludlow, Mass.
- BENNETT, George L. (1905), Efficiency Engr., Bd. of Estimate, City of N. Y., 51 Chambers St., and *for mail*, 3321 Giles Pl., Kingsbridge, New York, N. Y.
- BENNETT, John W. F. (1913), Deputy Commr., Dept. Water Supply, Gas and Elec., 21 Park Row, New York, and *for mail*, 8401 Ridge Blvd., Bay Ridge, Brooklyn, N. Y.
- BENNETT, Joseph A. (1907), Chalmers Motor Co., Detroit, Mich.
- BENNETT, R. M. (Junior, 1912), 438 High St., Pottstown, Pa.
- BENNETT, Thomas Archibald (Junior, 1903), Dept. Sales Mgr., The B. F. Goodrich Co., and *for mail*, 39 Hawthorne Ave., Akron, O.
- BENNS, Charles P. (1898), Supt. Bldgs. and Grounds, Teachers College, Columbia Univ., and 195 Claremont Ave., New York, N. Y.
- BENSON, Orville (1901), Pequannock, N. J.
- BENSON, Stuart Wells (1913), Ch. Draftsman Tramway Dept. Trenton Plant, Am. Steel & Wire Co., and *for mail*, 33 Woodside Ave., Trenton, N. J.
- BENTLEY, Ernest W. (1904), Mgr. Pittsburgh Office, Skinner Eng. Co., 507 Diamond Bank Bldg., Pittsburgh, and 388 Vermont Ave., Rochester, Pa.

- BENTLEY, Harry Thomas (1913), Supt. M. P. and Mchy., Chicago & Northwestern Ry., Chicago, and *for mail*, 425 Clinton Ave., Oak Park, Ill.
- BENTLEY, O. D. H. (1910), Mgr. Turbine Dept., B. F. Sturtevant Co., Hyde Park, Mass.
- BENTON, Morris F. (Associate, 1903), Mech. Engr., 300 Communipaw Ave., Jersey City, and 107 Crescent Ave., Plainfield, N. J.
- BERG, Christian P. (1913), Engr., Drake & Berg, Inc., Rm. 1126 72 W. Adams St., Chicago, Ill, and 4924 Greene St., Germantown, Philadelphia, Pa.
- BERG, Ernst Julius (1913), Prof. Elec. Engrg., Union Univ., Schenectady, N. Y.
- BERG, Hart O. (1898; 1903), Engr., Queen's House, 8 Queen St., Cheapside, E. C., London, England, and *for mail*, 32 Ave. Des Champs-Elysées, Paris, France.
- BERG, P. T. (1890), Am. Vice-Consul General, No. 63, Strandvagen, Stockholm, Sweden.
- BERGE, George Hewes (Associate, 1913), Sales Mgr., Ill. Stoker Co., 820 Marquette Bldg., Chicago, Ill.
- BERGER, Franz Alfred (1909), Asst. Prof. Mech. Engrg., Washington Univ., St. Louis, Mo.
- BERGER, Joseph William (1913), Ch. Engr., Ralph B. Carter Co., 152 Chambers St., New York, and 141 Monroe St., Brooklyn, N. Y.
- BERGEY, John Edgar (1913), Leadingman Draftsman, Mchy. Div., Navy Yard, Bldg. 26, and *for mail*, 150 N. Salford St., Philadelphia, Pa.
- BERGQUIST, John Gosta (1912), Cons. Engr. for Universal Portland Cement Co., Brymptonwood, Glen Head, L. I., N. Y.
- BERLINER, Richard W. (1903; 1913), Genl. Mgr., Claremont Ry. & Ltg. Co., Claremont, N. H.
- BERNARD, James L. (1902), Mech. Engr., Am. Bridge Co., Ambridge, and Beaver, Beaver Co., Pa.
- BERNHARD, Richard (Junior, 1901), Ch. Engr. Min., Crushing and Cement Mchy. Dept., Power & Min. Mchy. Co., Cudahy, and *for mail*, 632 Wentworth Ave., Milwaukee, Wis.
- BERRESFORD, Arthur W. (1911), V. P. and Genl. Mgr., The Cutler-Hammer Mfg. Co., Milwaukee, Wis.
- BERRIAN, Henry C. (Junior, 1912), Engrg. Dept. Estimating Div., Newport News Shipbuilding & Dry Dock Co., and *for mail*, 3111 West Ave., Newport News, Va.
- BERRY, Edgar H. (1905; 1907), present address unknown.
- BERRYMAN, Wilson G. (Junior, 1905), Sales Mgr., Earl E. Litz Co., 207 Market St., Newark, N. J., and *for mail*, 36 Murray St., Flushing, N. Y.
- BERTSCH, John Charles (1901), Refrigerating Engr., Providence Engrg. Wks., 50 Church St., and *for mail*, 601 W. 156th St., New York, N. Y.
- BEST, William John (1910), West. Mgr., Wheeler Condenser & Engrg. Co., 1736 First Natl. Bank Bldg., Chicago, Ill.

- BEST, William Newton (1912), Oil Furnaces and Oil Htg. Engrg., 11 Broadway, New York, N. Y.
- BETH, Hugo W. H. (1912), Operating Engr., Norton Co., and 39 Burncoat St., Worcester, Mass.
- BETTS, Alfred (1881), 906 Adams St., Wilmington, Del.
- BETTS, Philander (1912), Ch. Engr., Bd. of Public Utility Commrs., State of N. J., 738 Broad St., Newark, and 238 Valley Rd., Montclair, N. J.
- BEVIN, Sydney (Junior, 1909), Engr., Fiske Bros. Refining Co., 24 State St., New York, and *for mail*, 488 Myrtle Ave., Flushing, N. Y.
- BEYER, Otto S., Jr. (Junior, 1913), Genl. Foreman, Rock Island Lines, Horton, Kan.
- BIBBINS, James Rowland (1904; 1909), Engr. Associated with Bion J. Arnold, 105 S. La Salle St., Chicago, Ill.
- BIDLE, William Sanford (1904), Pres. and Treas., The W. S. Bidle Co., 1411 E. 45th St., and *for mail*, 1809 E. 93d St., Cleveland, O.
- BIDWELL, Carlyle D. (1913), Mech. Engr., Internatl. Harvester Corp., Akron, O.
- BIERBAUM, Christopher Henry (1894; 1898), Life Member; Bierbaum-Dollar, Inc., Cons. Engrs., V. P., Lumen Bearing Co., Pres., Molyneux Mailing Mchs. Co., 931 Marine Bank Bldg., and 84 Fargo Ave., Buffalo, N. Y.
- BIGELOW, Charles H. (1904), Ch. Mech. Engr., Millville Mfg. Co., and 917 Columbia Ave., Millville, N. J.
- BIGELOW, Frank B. (1907), Sales Mgr., Murphy Iron Wks., and 3061 West Grand Blvd., Detroit, Mich.
- BIGELOW, Frank L. (1887), Pres., The Bigelow Co., and 205 Whitney Ave., New Haven, Conn.
- BIGELOW, Myron J. (1904), Mech. Engr., Molyneux Mailing Mchs. Co., 1021 Main St., and *for mail*, 357 Delaware Ave., Buffalo, N. Y.
- BILGRAM, Hugo (1885), Machinist, 1235 Spring Garden St., and 751 N. 40th St., Philadelphia, Pa.
- BILLINGS, A. W. K. (1909), V. P. and Managing Dir., Ebro Irrigation & Power Co., Ltd., Apartado 491, Barcelona, Spain, and care of Pearson Engrg. Corp., 115 Broadway, New York, N. Y.
- BILLINGS, Charles E. (1880), Vice-President, 1893-1895; President, 1895; Life Member; Pres. and Genl. Mgr., The Billings & Spencer Co., Hartford, Conn.
- BILLINGS, Edward J. (Junior, 1912), Supt. of Power, St. Joseph Ry., Light, Heat & Power Co., St. Joseph, Mo.
- BILLINGS, Frederic C. (1891), V. P., Billings & Spencer Co., and 78 Elm St., Hartford, Conn.
- BILLINGS, William Richardson (1906), Secy. and Treas., Alberger Pump & Condenser Co., 140 Cedar St., New York, and *for mail*, 151 Columbia Hgts., Brooklyn, N. Y.
- BILLWILLER, Charles James, Jr. (Associate-Member, 1913), Constr. Engr., Nitrate Agencies, Ltd., Iquique, Chile, S. A., and *for mail*, care of W. R. Grace & Co., 7 Hanover Sq., New York, N. Y.

- BINGHAM, Elbert Howard (1912), Wks. Mgr., The Solvay Process Co., Detroit, Mich.
- BINLEY, William, Jr. (1913), Ch. Draftsman Hull Div., Navy Yard, Brooklyn, N. Y., and *for mail*, 40 Blvd., Summit, N. J.
- BIRD, John B. (1913), Joseph Bancroft & Sons Co., and *for mail*, Hillcroft, Wilmington, Del.
- BIRD, John C. (1910), Mech. Engr., Union Steam Pump Co., and *for mail*, 46 Howland St., Battle Creek, Mich.
- BIRD, John D. (1891; 1905), Genl. Mgr., Power & Min. Mchy. Co., and Internatl. Gas Eng. Co., and 596 Summit Ave., Milwaukee, Wis.
- BIRD, Paul P. (1907), Member of Firm, Norton & Bird, Engrs., 72 W. Adams St., Chicago, and *for mail*, 240 Park Ave., Highland Park, Ill.
- BIRD, William W. (1889; 1891), Prof. Mech. Engrg. and Dir. Washburn Shops, Worcester Poly. Inst., and 10 Harvard St., Worcester, Mass.
- BIRDSEY, Charles Robt. (Associate, 1907), Ch. Engr., U. S. Gypsum Co., 200 Monroe St., and *for mail*, 528 S. Millard Ave., Chicago, Ill.
- BIRKINBINE, John (1888), Cons. Engr., Parkway Bldg., Broad and Cherry Sts., Philadelphia, and *for mail*, Cynwyd, Montgomery Co., Pa.
- BIRNIE, Col. Rogers (1913), Sandy Hook Proving Ground, Fort Hancock, N. J., and Governor's Island, N. Y.
- BISHOP, Charles R. (1903), Secy. and Genl. Mgr., Am. Dist. Steam Co., North Tonawanda, and 413 Locust St., Lockport, N. Y.
- BISHOP, Frank (1907; 1910), Supt., Singer Mfg. Co., and 512 21st St., Cairo, Ill.
- BISSELL, Geo. W. (1890; 1899), Prof. Mech. Engrg. and Dean of Engrg., Mich. Agri. College, East Lansing, Mich.
- BITTERLICH, Walter J. (Junior, 1906), Asst. M. M., Hood Rubber Co., and *for mail*, 27 Irving St., Watertown, Mass.
- BIXBY, Allan Smith (1907), Supt., Natl. Malleable Castings Co., Indianapolis, Ind.
- BIXBY, Walter (Junior, 1907), 126 Rosseter St., Dorchester, Mass.
- BIXBY, Genl. William H. (1888), Life Member; U. S. Engr., 735 Southern Bldg., and 2013 Kalorama Rd., Washington, D. C.
- BIXBY, William P. (Junior, 1908), Union Wadding Co., Pawtucket, R. I.
- BIXLER, Harry Z. (1907), Ch. Engr., The Brier Hill Steel Co., and *for mail*, 213 Arlington St., Youngstown, O.
- BLACK, Edward S. (1903), Edgar Allen Am. Manganese Steel Co., Chicago, Ill.
- BLACKALL, Frederick S. (1913), Chairman Exec. Com. R. Hoe & Co., 504 Grand St., New York, N. Y., and V. P. and Genl. Mgr., The Taft-Peirce Mfg. Co., Woonsocket, R. I.
- BLACKBURN, Arthur Henry (1894), Treas. and Genl. Mgr., The Green Fuel Economizer Co., Matteawan, and *for mail*, Inglewood Manor, Fishkill-on-Hudson, N. Y.

- BLACKMAN, G. Horton (Junior, 1913), Member of Firm, Bowman-Blackman Mch. Tool Co., 1513 N. Broadway, and 5631 Berlin Ave., St. Louis, Mo.
- BLACKWELL, Josiah Low (1898), 27 William St., New York, N. Y., and 745 Calvert Bldg., Baltimore, Md.
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- BLAIR, William Richard (1911), Wks. Mgr., Landis Mch. Co., St. Louis, and 473 Oakwood Ave., Webster Groves, Mo.
- BLAISDELL, Allen Holt (Junior, 1912), 736 Wallace Ave., Wilkesburg, Pa.
- BLAISDELL, Benjamin H. (1909), Ch. Engr., Manila Elec. R. R. & Light Co., Manila, P. I.
- BLAKE, Charles S. (1912), Secy., The Hartford Steam Boiler Inspc. & Ins. Co., and *for mail*, 220 Ashley St., Hartford, Conn.
- BLAKE, Edmund E. (1913), Agt., Saco-Lowell Shops, Biddeford, Me.
- BLAKE, Edwin Mortimer (1907), Rm. 1406, 1 Liberty St., New York, N. Y.
- BLAKE, Francis E. (Junior, 1901), Mech. Engr., State Barge Canal Office, New Lyon Block, Albany, and Delmar, Albany Co., N. Y.
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- BLAKEMAN, Winfield Wellington (1913), Supt., The Blanchard Mch. Co., Cambridge, and *for mail*, 19 Prospect Hill Ave., Somerville, Mass.
- BLAKESLEE, Frank Arthur (1910), Ch. Mech. Engr., Ashanti Goldfields, Obuasi, Gold Coast Colony, West Africa.
- BLANCHARD, Henry Willby (1909), Mgr., Austral Iron Wks., E. W. Tarry Co., Ltd., P. O. Box 1098, and Whiddon, Belquania, Johannesburg, Transvaal, S. A.
- BLANCHARD, Rollo Kimball (Junior, 1912), Engr., Neptune Meter Co., 90 West St., New York, N. Y.
- BLAND, John P. (1901), Printer and Ch. Engr., The Times, and *for mail*, 48 Thurlough Rd., Nightingale Lane, London, S. W., England.
- BLANDING, Robert Lincoln (1913), Assoc. with Warren B. Lewis, Cons. Engr., and *for mail*, 10 Brightwood Ave., Providence, R. I.
- BLANKENHORN, George Stevens (1906; 1913), Mech. Engr., Allis-Chalmers Mfg. Co., and *for mail*, 491 Jefferson St., Milwaukee, Wis.
- BLASDELL, Arthur F. (1912), Mfg. Supt., Genl. Elec. Co., and *for mail*, 191 Bartlett Ave., Pittsfield, Mass.
- BLATCHLEY, Chas. A. (1906), Mech. Engr., 1052 Drexel Bldg., Philadelphia, Pa., and 47 Walnut St., Haddonfield, N. J.
- BLAUVELT, Albert (1896), Assoc. Mgr., West. Factory Ins. Asso., Ins. Exch. Bldg., Chicago, Ill.
- BLAUVELT, Wm. Hutton (1900), Cons. Engr., Semet-Solvay Co., and *for mail*, 1917 W. Genesee St., Syracuse, N. Y.

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- BLENCOWE, John (1900), 723 Edgemont Blvd., Los Angeles, Cal.
- BLESSING, George Frederick (1913), Prof. Mech. Engrg., Charge of Engrg., Swarthmore College, and *for mail*, 6 Whittier Pl., Swarthmore, Pa.
- BLEYER, Chas. F. (Junior, 1909), Erecting Engr., Allis-Chalmers Co., 814 Frick Bldg., Pittsburgh, Pa., and 836 Cass St., Milwaukee, Wis.
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- BLISS, Edwin C. (1908), 69 Mulberry St., Pawtucket, R. I.
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- BLOOD, Chas. W. H. (1902), V. P. and Treas., S. A. Woods Mch. Co., Damrell St., South Boston, and *for mail*, 19 Floyd St., Winthrop, Mass.
- BLOOD, John Balch (1895; 1903), 232 High St., Newburyport, Mass.
- BLOOD, Louis Henry (1905), Mech. Supt., Wood & Brooks Co., Buffalo, N. Y.
- BLOSSOM, Francis (1902), Partner, Sanderson & Porter, 52 William St., New York, N. Y., and 65 Heywood Ave., Orange, N. J.
- BLUM, Arthur N. (1909), Mech. Engr., Genl. Delivery, New York, N. Y.
- BLUM, Joseph K. (Junior, 1909), Engr., Gardner Crusher Co., 1482 Broadway, and *for mail*, 44 W. 77th St., New York, N. Y.
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- BLUMGARDT, Isaac E. (Associate, 1908), 57 W. 82d St., New York, N. Y.
- BOBLET, Kinderman M. (Associate, 1911), Radiator Expt., The Kinsey Mfg. Co., and 626 Nessel St., Toledo, O.
- BOCORSELSKI, F. E. (1907), Asst. Mech. Supt., Am. Loco. Co., and 1843 W. Grace St., Richmond, Va.
- BODWELL, Howard L. (1907), Asst. Dist. Mgr., Am. Sheet & Tin Plate Co., Vandergrift, Pa.
- BOEHM, Wm. H. (1900), Supt. Depts. Steam Boiler and Fly Wheel Ins., Fidelity & Casualty Co., 92 Liberty St., and "The Anniston," 281 Edgecombe Ave., New York, N. Y.
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- BOERNER, Emile C. (1895), Cons. Mech. Engr., Russell, Burd-sall & Ward Bolt & Nut Co., and *for mail*, 214 Locust Ave., Port Chester, N. Y.
- BOETTGER, Robert (1912), Secy., United Piece Dye Wks., Lodi, N. J., and *for mail*, 30 Belvedere Drive, Yonkers, N. Y.
- BOGARDUS, Henry A. (Associate, 1907), Pres. and Treas., Bogardus Co., 224-230 W. Huron St., and 2920 Pine Grove Ave., Chicago, Ill.
- BOGART, Albert Luther (1913), Pres., Power Engrg. Co., 512 Corn Exch. Bldg, and 4825 Pleasant Ave., Minneapolis, Minn.
- BOLE, Wm. A. (1887), Asst. Genl. Mgr., Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 722 S. Negley Ave., Pittsburgh, Pa.
- BOLGIANO, J. Ralph (Junior, 1912), Taylor-Wharton Iron & Steel Co., 1005 Fort Dearborn Bldg., Chicago, Ill.
- BOLLER, Alfred P., Jr. (1901), 45 E. 17th St., New York, N. Y., and East Orange, N. J.
- BOLLES, Frank G. (Associate, 1901), Commercial Agt., Dept. of Commerce of Washington, D. C., and *for mail*, 2447 Sycamore St., Milwaukee, Wis.
- BOLLING, Stewart, Jr. (Junior, 1912), Turbine Engr., Genl. Elec. Co., Oliver Bldg., and 217 Millvale Ave., Pittsburgh, Pa.
- BOLTON, Reginald Pelham (1898), Cons. Expt., Pres., The R. P. Bolton Co., 55 Liberty St., and 638 W. 158th St., New York, N. Y.
- BOND, Francis M. (Junior, 1909), Foreman Loco. Dept., Baltimore & Ohio R. R. Co., Akron Junction, and Genl. Delivery, Akron, O.
- BOND, Geo. M. (1881), Manager, 1888-1891; Vice-President, 1908-1910; Mech. Engr., 141 Washington St., Hartford, Conn.
- BONE, Wm. H. (1883), V. P. and Genl. Mgr., The Ironsides Co., and *for mail*, 85 N. Ohio Ave., Columbus, O.
- BONNER, Richard Oliver (Junior, 1910), Genl. Mgr., Bonner Development Corp., and *for mail*, P. O. Box 152, Rockville Center, N. Y.
- BONNETT, L. B. (1911), Civ. Service Examiner, Mech. Engr., Municipal Civ. Service Com., Municipal Bldg., New York, N. Y., and *for mail*, 310 W. Jersey St., Elizabeth, N. J.
- BONNEY, Herbert Marshall (Junior, 1909), Ch. Draftsman, L. F. Fales, and *for mail*, Walpole, Mass.
- BOORAEM, J. Francis (1895; 1906), Secy., Treas. and Genl. Mgr., Am. Enameled Brick & Tile Co., Centurian Bldg., 1182 Broadway, and South River, N. J., Pres and Treas., Cinch Expansion Bolt & Engrg. Co. 208 Lafayette St., New York, N. Y.; res., Shore Rd., Greenwich, Conn.
- BOORAEM, J. Van Vorst (1884), Life Member; Cons. Engr., 204 Lincoln Pl., Brooklyn, N. Y.
- BOOTH, Charles A. (1909), Charge Engrg., Sales, Buffalo Forge Co., Buffalo Steam Pump Co., and *for mail*, 142 Summit Ave., Buffalo, N. Y.

- BORCHARDT, Albert Hugo (Junior, 1912), Henry R. Worthington, 308 Sharon Bldg., San Francisco, Cal.
- BORDE, George U. (1909), Cons. Engr., 820-822 Hibernia Bldg., New Orleans, La.
- BORDEN, John Morrow (Junior, 1912), Estimator, John Borden & Bro., 637 N. 19th St., Philadelphia, and *for mail*, 4622 Wayne Ave., Germantown, Philadelphia, Pa.
- BORDEN, Moro M. (1913), Mech. Engr., Simplex Valve & Meter Co., 208 Chancellor St., Philadelphia, Pa., and *for mail*, 310 Lees Ave., Collingswood, N. J.
- BORDEN, Wm. H. (Junior, 1905), Goldsboro, N. C.
- BORIE, Renshaw (Associate-Member, 1913), Elec. Engr., Yale & Towne Mfg. Co., and *for mail*, 366 Atlantic St., Stamford, Conn.
- BORNHOLT, Oscar Charles (1904; 1909), M. M., Maxwell Motor Co., and 3020 W. Grand Blvd., Detroit, Mich.
- BOSSERT, Chas. Philip (1892; 1901), Mech. Engr., Pfister & Vogel Leather Co., and *for mail*, 179 36th St., Milwaukee, Wis.
- BOSWORTH, Wilbur McKnew (1913), Mech. Engr., Kansas City So. Ry. Co., Pittsburg, Kan.
- BOTT, George R. (1913), Mech. Engr., The Norma Co. of Am., 20-24 Vesey St., New York, N. Y.
- BOUGHTON, Judson H. (1903; 1911), Pres., Natl. Light & Power Co., Pierce Bldg., and 6343 Berlin Ave., St. Louis, Mo.
- BOURNE, George L. (1903), V. P., Loco. Superheater Co., 30 Church St., New York, and Lyncroft Rd., New Rochelle, N. Y.
- BOURNE, Stephen N. (1891), Agt., Dundee Mills, Hookset, and *for mail*, Elm and Blodgett Sts., Manchester, N. H.
- BOURQUIN, James F. (Junior, 1907), Genl. Mgr., Paige-Detroit Motor Car Co., and *for mail*, 2252 West Grand Blvd., Detroit, Mich.
- BOUSFIELD, Alfred (1912), Ch. Engr., E. & T. Fairbanks Co., and *for mail*, P. O. Box 166, St. Johnsbury, Vt.
- BOUTON, Geo. Innes (1901; 1904), Cons. Mech. Engr., 11 Broadway, and *for mail*, 137 W. 82d St., New York, N. Y.
- BOVEY, William Howard (1913), Genl. Supt. and Dir., Washburn Crosby Co., Chamber of Commerce, and 212 W. Franklin Ave., Minneapolis, Minn.
- BOWEN, David R. (1899), Supt., Farrel Fdy. & Mch. Co., and *for mail*, 5 Clover St., Ansonia, Conn.
- BOWEN, Harrison Seba (1895; 1908), Mech. Engr., Robert W. Hunt & Co., 2200 Ins. Exch. Bldg., Chicago, and Wilmette, Ill.
- BOWER, J. G. (Associate, 1903), The Buckeye Steel Castings Co., 50 Church St., and Vanderbilt Hotel, Park Ave. and 34th St., New York, N. Y.
- BOWER, Ward James (Junior, 1913), Engr. on New Constr., Inland Steel Co., and *for mail*, 3602 Elm St., Indiana Harbor, Ind.
- BOWERMAN, Myron Ralph (Junior, 1910), Asst. in Mech. Drawing and Mch. Design, Kan. State Agri. College, and *for mail*, 1105 Vattier St., Manhattan, Kan.

- BOWERS, George Wright (1910), Mech. and Cons. Engr., 53 Devonshire St., Boston, and *for mail*, 47 Franklin St., Somerville, Mass.
- BOWMAN, Austin Lord (1899), Cons. Engr., 165 Broadway, New York, N. Y.
- BOWMAN, Franklin Meyer (1894; 1902), V. P., Blaw Steel Constr. Co., Farmers Bank Bldg., and *for mail*, 1234 N. Highland Ave., Pittsburgh, Pa.
- BOYD, Ford E. (Junior, 1912), Mech. Engr. with Ch. Engr., Oliver Iron Min. Co., 714 Wolvin Bldg., and 3620 E. 4th St., Duluth, Minn.
- BOYD, James C. (1907), Ch. Engr., Westinghouse, Church, Kerr & Co., 37 Wall St., New York, N. Y., and 213 Park St., Montclair, N. J.
- BOYD, John T. (1887), 231 Polifly Rd., Hackensack, N. J.
- BOYD, William Charles (1907), Asst. Engr., Pittsburgh Rys. Co., 435 Sixth Ave., Pittsburgh, and *for mail*, McKees Rocks, Pa.
- BOYD, Wm. Wallace (Junior, 1910), 1808 St. Paul St., Baltimore, Md.
- BOYER, Edwin S. (1897; 1902; 1907), Mech. Engr., Office Walter Kidde, 140 Cedar St., New York, N. Y., and *for mail*, 93 Fairview Ave., Plainfield, N. J.
- BOYER, Frederic Quintard (1909; Associate-Member, 1913), Instr. Mech. Engrg., S. S. S., Yale Univ., 275 Mason Lab., and *for mail*, 1472 Chapel St., New Haven, Conn.
- BOYER, Joseph (1913), Pres., Burroughs Adding Mch. Co., Burroughs and Second Aves., and *for mail*, 637 Woodward Ave., Detroit, Mich.
- BRADLEY, W. H. (1892), Ch. Engr., Consld. Gas Co., 124 E. 15th St., and 23 W. 68th St., New York, N. Y.
- BRADLEY, Wm. Joseph (1905), Supt., Rail Joint Co., and 1 Belle Ave., Troy, N. Y.
- BRADSHAW, Grant D. (1904; 1913), Steam Engr., Cambria Steel Co., Johnstown, and 540 Third Ave., Westmont, Johnstown, Pa.
- BRADY, Joseph Benjamin (Junior, 1910), Joseph T. Ryerson & Son, 16th and Rockwell Sts., Chicago, and *for mail*, Y. M. C. A., Oak Park, Ill.
- BRADY, Joseph H. (1907), Ch. Engr., Bd. of Education, 514 Finance Bldg., and 3612 Paseo Blvd., Kansas City, Mo.
- BRAINE, Bancroft G. (1896; 1905), Engr., The Rail Joint Co., 185 Madison Ave., and 1186 Lexington Ave., New York, N. Y.
- BRAKEMAN, Roy Edgar (1911), Asst. Ch. Engr. Steel Wks. and Blast Furnace Dept., Tenn. Coal, Iron & R. R. Co., and *for mail*, Box 36, South Highland Sta., Birmingham, Ala.
- BRAMAN, Samuel N. (Junior, 1902), 33 Pearl St., and *for mail*, 10 Newbury St., Boston, Mass.
- BRAND, George B. (1912), Supt., Monarch Typewriter Wks., Remington Typewriter Co., 435 N. Franklin St., and 108 Dorset Rd., Syracuse, N. Y.
- BRAND, Walter N. (1912), Supt., Smith Premier Wks., and *for mail*, 916 Lancaster Ave., Syracuse, N. Y.

- BRANDES, Hermann (1913), Mech. Engr. and Purchasing Agt., Compania Minera de Penoles, 52 Broadway, New York, N. Y.
- BRANDON, Geo. Russel (1897; 1901), V. P. and Genl. Engr., Whiting Fdy. Equip. Co., Harvey, and *for mail*, Flossmoor, Cook Co., Ill.
- BRANDON, William J. (1912), Mech. Engr., Avery Co., and 503 W. Armstrong Ave., Peoria, Ill.
- BRASHEAR, John A. (1891; Honorary, 1908), Manager, 1899-1902; Mfr., Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., N. S., Pittsburgh, Pa.
- BRAUN, Carl F. (1907; Associate-Member, 1913), Pres., C. F. Braun & Co., 503 Market St., San Francisco, Cal. *
- BRAUN, Horace Herbert (Junior, 1911), Constr. Engr., Cia Reigos & Fuerza del Ebri, Apartado 491, Barcelona, Spain, and 1847 Cordova St., Los Angeles, Cal.
- BRAY, Charles W. (1888), R. D. No. 1, Bridgeport, Pa.
- BRAY, Thos. Jos. (1898), Pres., Republic Iron & Steel Co., and 524 Wick Ave., Youngstown, O.
- BRECKENRIDGE, Andrew Lyndon (Junior, 1913), Bldg. Inspr., Narragansett Elec. Ltg. Co., 25 South St., and *for mail*, 20 Arch St., Providence, R. I.
- BRECKENRIDGE, C. E. (Associate, 1904), Engr., Natl. Surety Co., 115 Broadway, New York, N. Y., and *for mail*, 17 Fairview Ave., Madison, N. J.
- BRECKENRIDGE, L. P. (1890), Vice-President, 1907-1909; Prof. Mech. Engrg., S. S. S., Yale Univ., Mason Laboratory, New Haven, Conn.
- BREER, Carl (Junior, 1912), Production Supt., Moreland Motor Truck Co., Wilhardt and Main Sts., Los Angeles, and *for mail*, 1800 Mar Vista Ave., Pasadena, Cal.
- BREESE, Charles P. (1903), Second V. P., J. R. Young Fertilizer Co., Inc., 200 Citizens Bank Bldg., and *for mail*, 318 Colonial Ave., Norfolk, Va.
- BRENDLINGER, Wm. B. (Associate, 1907), Mgr., Ingersoll-Rand Co., 1223 Farmers Bank Bldg., and 704 Summerlea St., Pittsburgh, Pa.
- BRENEMAN, Paul Edward (Junior, 1912), Engrg. Dept., Nelson-Brennan-Peterson Co., Auto Mfrs., and *for mail*, 608 Y. M. C. A. Bldg., Detroit, Mich.
- BRENNAN, James (Junior, 1911), Ch. Engr., Crucible Steel Co. of Am., 2032 Oliver Bldg., and *for mail*, Beechwood Blvd., E. L., Pittsburgh, Pa.
- BRENNAN, John T. (Associate-Member, 1913), Mech. Engr., Corrigan & McKinney Co., Perry Payne Bldg., and *for mail*, 1293 W. 108th St., Cleveland, O.
- BRENNER, Wm. H. (1897), Managing Dir., Electromotor Equip. Co., Ltd., 59-65 Paul St., Finsbury, London, E. C., England, and *for mail*, 210 Simpson St., Atlanta, Ga.
- BRESLOVE, Joseph (Junior, 1906), Engr., Geo. T. Ladd Co., Farmers Bank Bldg., Pittsburgh, Pa.
- BRETT, Henry E. (1902), Cons. Engr., 114 N. Spring St., Los Angeles, Cal.

- BREWER, Arthur (1906), Supt. of Plant, Bridgeport Brass Co., and *for mail*, 100 Unquowa Hill, Bridgeport, Conn.
- BREWSTER, Frank H. (1894), Genl. Supt., U. S. Rubber Reclaiming Wks., 724 Babcock St., and 180 Woodbridge Ave., Buffalo, N. Y.
- BREZINSKY, Emil (1912), Sales Engr., Internatl. Engrg. Co., Moscow, Russia.
- BRICE, Andrew Thomas (1913), Mech. Engr. Dept. of Public Wks., Borough of Manhattan, Bureau of Public Bldgs. and Offices, 13 Park Row, and *for mail*, 165 E. 80th St., New York, N. Y.
- BRIDENBAUGH, Elmer Henry (1912), Cons. Mech. Engr., P. O. Box 476, Denver, Colo.
- BRIGGS, Arthur J. (1907), Mech. Engr., Smith Premier Typewriter Co., and 107 Victoria Pl., Syracuse, N. Y.
- BRIGGS, Leroy E. (Junior, 1911), Staff Engr., Thomas A. Edison Lab., Orange, and *for mail*, 29 S. Walnut St., East Orange, N. J.
- BRIGGS, William C. (1907), Erie Ave. and Springfield Rd., Elizabeth, N. J.
- BRIGHAM, Edmond F. (1913), Mech. Engr., N. E. Confectionery Co., and *for mail*, 253 Summer St., Boston, Mass.
- BRIGHAM, Lucien M. (Junior, 1906), Sales Mgr., Manning, Maxwell & Moore, Inc., 119 W. 40th St., New York, N. Y., and *for mail*, Llewellyn Park, West Orange, N. J.
- BRIGHT, Fred. E. (1913), Pres., The Hess-Bright Mfg. Co., Front St. and Erie Ave., Philadelphia, Pa.
- BRIGHT, Holstein De Haven (1905; 1906; 1913), Pres., Southwark Fdy. & Mch. Co., Washington Ave. and 5th St., and *for mail*, Union League Club, Philadelphia, Pa.
- BRILL, Geo. M. (1891; 1896), Manager, 1904-1907; Vice-President, 1910-1912; 1135 Marquette Bldg., Chicago, Ill.
- BRINK, Harry Le Roy (1912), First Asst. to Ch. Engr., Am. Hoist & Derrick Co., and *for mail*, 1738 Van Buren St., St. Paul, Minn.
- BRINKERHOFF, Albert David (Junior, 1913), Secy.-Treas., Natl. Light & Power Co., 1148 Pierce Bldg., St. Louis, Mo.
- BRINKERHOFF, Harry A. (1910), Engr. in Charge, Westinghouse, Church, Kerr & Co., 611 Confederation Life Bldg., and 720 Dorchester Ave., Winnipeg, Man., Canada.
- BRINLEY, Charles Edward (1913), V. P. and Mgr., The Am. Pulley Co., 4200 Wissahickon Ave., Philadelphia, Pa.
- BRINSMADE, Louis L. (1897; 1906), East. Sales Mgr., Westinghouse Mch. Co., 165 Broadway, and The Friesland, 103d St. and Broadway, New York, N. Y.
- BRINTON, Willard Cope (1907; 1912), Cons. Engr., Transit Bldg., 7 E. 42d St., and City Club, 55 W. 44th St., New York, N. Y.
- BRISTOL, Howard Hall (Junior, 1913), Charge Exper. Dept., The Bristol Co., Waterbury, Conn.
- BRISTOL, Wm. H. (1890), Pres., The Bristol Co., Waterbury, Conn.

- BRITTON, John A. (1907), V. P. and Genl. Mgr., Pacific Gas & Elec. Co., 445 Sutter St., San Francisco, Cal.
- BROBOSTON, Joseph (1912), Mgr., Dexter Portland Cement Co., Nazareth, Pa.
- BROCK, Clarence A. (Junior, 1913), 56 Bowdoin St., Worcester, Mass.
- BROCK, Walter I. (1902), Engr., Oswego, N. Y.
- BROCK, William M. (1894), Supt., Elec. Dept., Pub. Service, Edison Sta., and 576 E. 25th St., Paterson, N. J.
- BROCKLEBANK, Arthur P. (1912), Asst. Engr., Alberger Pump & Condenser Co., Rm. 710, 140 Cedar St., New York, N. Y.
- BRODEN, Edwin H. (1912), Supt. Braddock Wks., Am. Steel & Wire Co., Braddock, and *for mail*, 858 E. Hutchinson Ave., Edgewood Park, Swissvale, Pa.
- BRODHEAD, Alex. L. (Junior, 1900), Cons. Engr., Catasauqua, Pa.
- BRONAUGH, Will Logan (Associate, 1905), Secy. and Treas., Iroquois Engrg. Co., 1507 Fisher Bldg., Chicago, and 23 Pine Ave., La Grange, Ill.
- BROOKS, Edwin C. (1884), 353 Grove St., Melrose, Mass.
- BROOKS, Henry K. (1907), Pres., Capital Iron Wks., and West-lawn, Topeka, Kan.
- BROOKS, J. Ansel (1907; 1911), Assoc. Prof. Mechanics and Mech. Drawing, Brown Univ., Providence, R. I.
- BROOKS, Louis C. (Junior, 1901), Elec. Engr. Industrial Control Dept., Genl. Elec. Co., and *for mail*, Route 49, Schenectady, N. Y.
- BROOKS, Morgan (1885), Life Member; Prof. Elec. Engrg., Univ. of Ill., Urbana, Ill.
- BROOKS, O. C. (1912), Engr., Robins Conveying Belt Co., 13 Park Row, and *for mail*, 302 W. 22d St., New York, N. Y.
- BROOME, Ernest L. (1898; 1909), Mech. Engr., 49 Wall St., New York, and Tarrytown, N. Y.
- BROSIUS, Frank R. (1913), Supt. of Power, Union Gas & Elec. Co., Cincinnati, and *for mail*, 511 Prospect Pl., Avondale, Cincinnati, O.
- BROWN, A. G. (1884), Life Member; 53 Victoria Bldgs., Manchester, and *for mail*, Ellerslie, Oswald Rd., Chorlton-cum-Hardy, England.
- BROWN, Alex. T. (1890), Life Member; Pres., Smith Premier Typewriter Co., Brown-Lipe Gear Co., Pres., Brown-Lipe-Chapin Co., and *for mail*, 608 W. Onondaga St., Syracuse, N. Y.
- BROWN, Charles M. (Associate, 1912), Genl. Sales Agt., Colonial Steel Co., 1203 Keystone Bldg., Pittsburgh, Pa.
- BROWN, Chas. S. (1890), Prof. Mech. Engrg., Vanderbilt Univ., and 921 19th Ave., S., Nashville, Tenn.
- BROWN, Dickson Q. (Junior, 1902), Tide Water Oil Co., 11 Broadway, New York, N. Y.
- BROWN, Earle Wayne (1913), Asst. Supt. Blast Furnaces, The Natl. Tube Co., Lorain, and *for mail*, 128 Ohio St., Elyria, O.

- BROWN, Edward W. (1910), V. P. and Genl. Mgr., Sterling Salt Co., 29 Broadway, New York, and Dongan Hills, S. I., N. Y.
- BROWN, Edwin Hacker (Junior, 1903), Member of Firm, Hewitt & Brown, Archs. and Engrs., 716 Fourth Ave., S., Minneapolis, and Wayzata, Minn.
- BROWN, Ernest Wayne (1912), V. P. and Engr., Blackstone and Merchants Mutual Fire Ins. Cos., 802 Grosvenor Bldg., Providence, R. I.
- BROWN, Frederick Baylis (1913), Cons. Engr., Partner, Walter J. Francis & Co., 232 St. James St., Montreal, Que., Canada.
- BROWN, Gabriel Scott (1912), Second V. P., Alpha Portland Cement Co., and *for mail*, Meixell St., Easton, Pa.
- BROWN, Harry Sanford (Junior, 1910), N. E. Sales Mgr., Power Spec. Co., 50 Congress St., Boston, and 107 Dummer St., Brookline, Mass.
- BROWN, Harry W. (Junior, 1909), Asst. Engr., Am. Agri. Chem. Co., 92 State St., Boston, and *for mail*, 118 Brighton Ave., Allston, Mass.
- BROWN, Herman Elisha (1908), Cons. Engr., 15 W. Chestnut St., Kingston, N. Y.
- BROWN, Howard Hayes (Junior, 1908), Editor, International Marine Engineering, 17 Battery Pl., New York, N. Y.
- BROWN, Hugh T. (1903), Stone Fort Power Co., Winchester, Tenn.
- BROWN, J. Grove (1902), Mech. Engr., Groton, N. Y.
- BROWN, James Monroe (1900; 1906), Supt., Lyons Boiler Wks., De Pere, Wis.
- BROWN, J. Linwood (1902), Mech. and Cons. Engr., R. F. D. No. 1, Conneaut, Ashtabula Co., O.
- BROWN, John J. (1902), V. P. and Genl. Mgr., Wheeler Condenser & Engrg. Co., Carteret, and 44 Bleecker St., Newark, N. J.
- BROWN, John Quincy (1906), Asst. to Genl. Mgr., San Francisco-Oakland Terminal Ry., Oakland, 313 Syndicate Bldg., and 105 Bayo Vista Ave., Oakland, Cal.
- BROWN, John Rowland (1900; 1904; 1909), Mech. Engr., Ohio Brass Co., Mansfield, O.
- BROWN, Rezeau Blanchard (1913), Genl. Mgr. and Ch. Engr., Milwaukee Gas Light Co., 182 Wisconsin St., and *for mail*, P. O. Box 824, Milwaukee, Wis.
- BROWN, Richard P. (Junior, 1908), Pres., Brown Instrument Co., 9th St. and Montgomery Ave., and 3617 Powelton Ave., Philadelphia, Pa.
- BROWN, Robert Garfield (1912), Instr. Mech. Engrg., Univ. of Cincinnati, and *for mail*, 223 Woolper Ave., Cincinnati, O.
- BROWN, Robt. S. (1891; 1904), Secy., New Britain Mch. Co., and *for mail*, 16 Forest St., New Britain, Conn.
- BROWN, Stephen Pearson (1909), Ch. Engr., Canadian No. Montreal Tunnel & Terminal Co., Ltd., and Managing Engr., Montreal Tunnel & Terminal Constr. for Mackenzie, Mann & Co., Ltd., 411 Dorchester St., W., and *for mail*, 823 University St., Montreal, Que., Canada.

- BROWN, Stuart F. (Junior, 1913), Supt's. Office, Whittin Mch. Wks., Whitinsville, Mass.
- BROWN, Theophilus (1912), Genl. Supt., Marseilles Co., East Moline, Ill.
- BROWN, Thomas Owen (1913), Mech. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y.
- BROWN, Walter E. (Junior, 1910), Draftsman, Am. Engrg. Co., Philadelphia, and *for mail*, 1644 Pratt St., Frankford, Pa.
- BROWN, Will H. (1909), Mfr., Rose Bldg., and University Club, Cleveland, O.
- BROWN, Willard (1910), Ch. Engr. Blast Furnace and Steel Wks., Upson Nut Co., Cleveland, and *for mail*, 13,271 Euclid Ave, East Cleveland, O.
- BROWN, William Clinton (1896), Ch. Engr., Humphrey Gas Pump Co., S. A. and K. Bldg., Syracuse, N. Y.
- BROWNE, Frank Atwood (1913), Asst. Engr., Isthmian Canal Com., P. O. Box 218, Wheeling, W. Va.
- BROWNE, James Hugh (1912), French & Hubbard, 88 Pearl St., Boston, Mass.
- BROWNING, Charles, Jr. (1905), Foreman Lab., So. Pacific Co., and *for mail*, P. O. Box 1127, Sacramento, Cal.
- BROWNING, Victor Reed (1908), Victor R. Browning & Co., and cor. Lake Shore Blvd. and Neff Rd., Cleveland, O.
- BROWNLEE, Robert Bruce (Junior, 1912) Asst. to Ch. Engr., Cooper Hewitt Elec. Co., 730 Grand St., Hoboken, and *for mail*, 247 William St., East Orange, N. J.
- BRUCKNER, Rudolph E. (1909), Sales Engr., U. S. Gauge Co., 67 Wall St., and *for mail*, 672 St. Nicholas Ave., New York, N. Y.
- BRUEGEL, A. Theodore (1900), Secy., The Hess-Bright Mfg. Co., Front St. and Erie Ave., Sta. E, and *for mail*, 1102 Melrose Ave., Melrose Park, Oak Lane Sta., Philadelphia, Pa.
- BRUFF, Charles E. (1908), Constr. Engr., Alaska Gastineau Min. Co., Juneau, Alaska.
- BRUNGER, Harry L. (1913), Ch. Draftsman, M. Rumely Co., and *for mail*, 1608 Indiana Ave., La Porte, Ind.
- BRUNNER, Roy Samuel (1912), Operating Engr., Didier-March Co., South Bethlehem, and *for mail*, 302 N. 7th Ave., Bethlehem, Pa.
- BRUNTON, David William (1913), Cons. Min. Engr., 730 Symes Bldg., Denver, Colo.
- BRUSH, Charles F. (1880), Life Member; Elec. Engr., 481 The Arcade, and 3725 Euclid Ave., Cleveland, O.
- BRUYERE, Paul Tulane (Associate, 1907), Bush Terminal Co., 67 34th St., and *for mail*, 177 Maple St., Brooklyn, N. Y.
- BRYANT, F. J. (1902), M. M., Andrew McLean Co., 4th and Virginia Sts., and *for mail*, 31 Lincoln St., Passaic, N. J.
- BRYANT, George Forrester (1912), Genl. Supt., Natl. Transit Co. Shops, and *for mail*, 114 W. 3d St., Oil City, Pa.
- BRYANT, William L. (1910), Pres., Bryant Chucking Grinder Co., Springfield, Vt.

- BRYCE, James Wares (Associate, 1909), Goss & Bryce, 76 William St., New York, N. Y., and 50 Fremont St., Bloomfield, N. J.
- BRYCE, Richard M. (Junior, 1913), Under Instr., Ingersoll-Rand Co., and *for mail*, 151 S. 6th St., Easton, Pa.
- BRYDON, Herbert Boyd (1911), Mech. Engr., H. M. Byllesby & Co., Chicago, Ill.
- BRYEN, Thomas T. (Junior, 1911), Mech. Engr. Gas Eng. Dept., Mesta Mch. Co., and *for mail*, 2308 Murray Ave., Pittsburgh, Pa.
- BUCK, Irwin (Junior, 1907), Ehrich Bros., 200 Fifth Ave., and *for mail*, 347 W. 55th St., New York, N. Y.
- BUCK, Lucien (1911; 1913), Constr. Engr. Kodak Park Wks., Eastman Kodak Co., and *for mail*, 184 Clay Ave., Rochester, N. Y.
- BUCKINGHAM, Earle (Associate-Member, 1913), Draftsman, Royal Typewriter Co., and *for mail*, 231 Sigourney St., Hartford, Conn.
- BUCKINGHAM, Henry H. (Junior, 1904), Hysham, Mont.
- BUCKLER, Albert H. (Junior, 1905), Care of Inspr., Third Light House Dist., Tompkinsville, N. Y.
- BUCKLEY, John Francis (1906) Genl. Mgr., Buckley Spec. & Mch. Co., and 996 Richie Ave., Lima, O.
- BUCKLEY, John H. (1912), Mech. Engr., Otis Elev. Co., and *for mail*, P. O. Box 335, Yonkers, N. Y.
- BUCKWALTER, Tracy V. (1913), Mech. Engrg. Dept., Pa. R. R., Altoona, Pa.
- BUDD, Edward G. (1903), Pres., Edward G. Budd Mfg. Co., Ontario and I Sts., Philadelphia, and *for mail*, 502 Westview St., Germantown, Philadelphia, Pa.
- BUFFINGTON, Harry Caldwell (Associate-Member, 1913), Mech. Draftsman, Minneapolis Steel & Mchy. Co., and *for mail*, 3021 Fremont Ave., S., Minneapolis, Minn.
- BUFFUM, F. D. (1902; Associate, 1904), Contr. Engr., 7002 Jenkins Arcade, Pittsburgh, Pa.
- BUKER, Henry (1907), West. Rep., Browne & Sharpe Mfg. Co., 626-630 Washington Blvd., Chicago, Ill.
- BULKELEY, Claude A. (1909), Cons. Mech. and Elec. Engr., 511 Terminal Bldg., 41st St. and Park Ave., New York, N. Y.
- BULKLEY, J. Norman (1902), Cons. Elec. Engr., Genl. Min. & Finance Corp., and *for mail*, P. O. Box 1242, Johannesburg, Transvaal, S. A.
- BULLARD, Dudley Brewster (1889), Mech. Engr. and Supt., The Bullard Mch. Tool Co., and 2429 North Ave., Bridgeport, Conn.
- BULLARD, Edward P., Jr. (1913), Pres. and Genl. Mgr., The Bullard Mch. Tool Co., Bridgeport, Conn.
- BULLARD, John Ervin (Associate, 1913), Mgr. New Business Dept., Public Service Corp. of L. I., and *for mail*, 14 Adams St., Port Washington, L. I., N. Y.
- BULLEN, Arthur Charles (Junior, 1911), Mech. Engr., The Holly Sugar Co., Swink, Colo.

- BULLOCK, Edwin R. (1890; 1904), Mech. Engr., 38 Brook St., Pawtucket, R. I.
- BULLOCK, Samuel A. (1906), Mgr. Elec. Truck Dept., The Baldwin Loco. Wks., 500 N. Broad St., and A-102 Monterey Apts., 43d and Chester Ave., Philadelphia, Pa.
- BULLOCK, William Edward (Associate-Member, 1913), Asst. to Secy. and Asst. Dir. of Sch., The Franklin Inst., 15 S. 7th St., Philadelphia, Pa.
- BUMP, Archie Edmund (Associate, 1908), Mgr. Constr. Dept., Swift & Co., 34 N. Market St., Boston, and *for mail*, 11 Alpha Rd., Dorchester, Mass.
- BUMP, Burton Nelson (1892; 1904), Engr. of Tests, Solvay Process Co., Syracuse, N. Y.
- BUNKER, Raymond U. (Junior, 1910), Mech. Engr., The Natl. Sugar Refining Co. of N. J., Yonkers, and 158 W. 58th St., New York, N. Y.
- BUNN, Frank Wilson (1894), Care of John A. Roebling's Sons Co., Trenton, N. J.
- BUNNELL, Sterling Haight (1894; 1903), Engr-in-Ch., Griscom-Russell Co., 90 West St., and 519 W. 121st St., New York, N. Y.
- BUNTING, Douglas (1902), Ch. Engr., Lehigh & Wilkes-Barre Coal Co., and *for mail*, 26 W. Ross St., Wilkes-Barre, Pa.
- BURBANK, Louis S. (1898), Asst. Ch. Draftsman, M. E. Draper Co., and *for mail*, Hopedale, Mass.
- BURCH, H. Kenyon (1910), Ch. Engr., Inspiration Consltd. Copper Co., Miami, Ariz.
- BURCHARD, Anson W. (1888; 1891), 57 E. 64th St., New York, N. Y.
- BURDICK, Ellsworth J. (1913), Supt. of Power, Detroit United Ry., 12 Woodward Ave., Detroit, Mich.
- BURDSALL, Ellsworth (Junior, 1880), Secy. and Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, Westchester Co., N. Y.
- BUREAU, Arthur A. (Junior, 1913), Purdue Univ., 1018 State St., Lafayette, Ind., and 6434 Woodlawn Ave., Chicago, Ill.
- BURGAN, A. L. (1897; 1899; 1903), Mill Supt., Tamarack Min. Co., Osceola Consltd. Mfg. Co., Ahmeek Min. Co., Hubbell, Mich.
- BURGESS, A. Bradley (1910; Associate-Member, 1913), Genl. Mgr., Stand. Plunger Elev. Co., Box 254, and 8 Townsend St., Worcester, Mass.
- BURGESS, Chas. Monroe (1897), Life Member; 358 W. Main St., New Britain, Conn.
- BURGESS, Edward W. (Junior, 1908), Engrg. Dept., J. I. Case Threshing Mch. Co., and *for mail*, 922 Wisconsin St., Racine, Wis.
- BURGHARDT, Henry D. (1913), Instr. Charge Mch. Shops, Wm. L. Dickinson High Sch., and *for mail*, 129 Sip Ave., Jersey City, N. J.
- BURGOON, Charles E. (1907), Isthmian Canal Com., Washington, D. C.

- BURKE, Albert Gallatin, Jr. (1913), East. Mgr., Green Engrg. Co., Rm. 1269, 50 Church St., and Engineers Club, 32 W. 40th St., New York, N. Y.
- BURKE, Walter Safford (1913), Harvard College, and 15 Lake View Ave., Cambridge, Mass.
- BURKHOLDER, Charles Irvine (1912), Genl. Mgr., So. Power Co., Charlotte, N. C.
- BURLEIGH, Chas. B. (1905), Dist. Mgr., Ltg. Dept. Genl. Elec. Co., 84 State St., Boston, and 11 Oak Terrace, Malden, Mass.
- BURLEIGH, Perry Gray (Junior, 1913), Oswego, N. Y.
- BURLEIGH, Wm. F. (1905), Genl. Supt., Murphy Varnish Co., and 48 Milford Ave., Newark, N. J.
- BURLEIGH, William Henry (Junior, 1911), Genl. Foreman, Rock Island Lines, Eldon, Mo.
- BURLEIGH, William Storer (Junior, 1913), Inspr., Underwriters' Labs., 87 Milk St., Boston, and *for mail*, 107 W. Central St., Natick, Mass.
- BURLING, Herbert Sherman (Junior, 1913), Inspr. Exide Dept., Storage Battery Co., 332 Ave. A, and *for mail*, 318 W. 57th St., New York, N. Y.
- BURLINGAME, Luther D. (1903), Ch. Draftsman, Brown & Sharpe Mfg. Co., and *for mail*, 15 Catalpa Rd., Providence, R. I.
- BURLINGAME, Wm. B. (1906) Arecibo Ice & Soda Water Co., Inc., Arecibo, P. R., and 18 Linden St., Exeter, N. H.
- BURNET, Edgar E. (1913), Asst. Supt., Judson Mfg. Co., and 327 34th St., Oakland, Cal.
- BURNETT, Earle Smead (Associate-Member, 1913), Instr. Exper. Engrg., Sibley College, Cornell Univ., Sibley Mech. Lab., and 115 Ridgewood Rd., Cayuga Heights, Ithaca, N. Y.
- BURNHAM, Harry A. (1898; 1902), Engr. and Spec. Inspr., Factory Mut. Fire Ins. Cos., 31 Milk St., Boston, and *for mail*, Ridgewood Terrace, Waltham, Mass.
- BURNHAM, Wm. (Associate, 1888), Pres. and Treas., Stand. Steel Wks. Co., Morris Bldg., and *for mail*, 4301 Spruce St., Philadelphia, Pa.
- BURNS, A. L. (1888; 1897), V. P., Jabez Burns & Sons, 600 W. 43d St., New York, N. Y., and Glen Ridge, N. J.
- BURNS, Edward, Jr. (1912), Secy. and Ch. Engr., Guarantee Constr. Co., 140 Cedar St., New York, and 860 Prospect Pl., Brooklyn, N. Y.
- BURNS, Homer S. (1911), Supt., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and 1535 Third Ave., Huntington, W. Va.
- BURR, William H. (1907), Prof. Civ. Engrg. and Cons. Engr., Columbia Univ., New York, N. Y.
- BURROUGHS, Joseph Howell, Jr. (1911; 1913), Otis Elev. Co., 11th Ave. and 26th St., and *for mail*, 34 W. 84th St., New York, N. Y.
- BURSLEY, Joseph Aldrich (1906; 1910), Junior Prof. Mech. Engrg., Univ. of Mich., and *for mail*, 815 Forest Ave., Ann Arbor, Mich.

- BURT, Austin (1913), Mgr., Citizens Gas & Elec. Co., and *for mail*, 631 W. 3d Ave., Waterloo, Ia.
- BURT, Clayton R. (1909), Factory Mgr., Russell Motor Car Co., Ltd., West Toronto, and 210 Westminster Ave., Toronto, Ont., Canada.
- BURTON, Isaac Francis (1908), Supt., Victor Talking Mch. Co., Camden, N. J., and *for mail*, 5219 Walnut St., Philadelphia, Pa.
- BURTSSELL, Bertram Ward (1913), Asst. Factory Mgr., Packard Motor Car Co., and *for mail*, 112 Philadelphia Ave., E., Detroit, Mich.
- BURWELL, Robert Turnbull (1901), Ch. Insp., Gulf Dept., Hartford Steam Boiler Inspc. & Ins. Co., 833 Gravier St., and *for mail*, 1709 Prytania St., New Orleans, La.
- BUSEY, Frank L. (1912), Engr., Buffalo Forge Co., Buffalo, N. Y.
- BUSH, Harold Montfort (1894; 1905), Cons. Engr., 136 E. Gay St., Columbus, and Briggsdale, O.
- BUSHNELL, Douglas S. (1909), Pres., N. Y. Transit Co., 26 Broadway, New York, N. Y., and 30 Elm St., Morristown, N. J.
- BUSHNELL, Fred. N. (1891), V. P. and Engrg. Mgr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, and 265 St. Paul St., Brookline, Mass.
- BUSHNELL, Horace C. (1913), Asst. Engr., Gibbs & Hill, Cons. Engrs., Pa. Sta., New York, and *for mail*, 276 Sackett St., Brooklyn, N. Y.
- BUSHNELL, James Edward (Junior, 1913), Engrg. Draftsman, Robins Conveying Belt Co., New York, and *for mail*, Cold Spring, Putnam Co., N. Y.
- BUSHNELL, Leonard T. (Junior, 1906), Secy. and Treas., Rockwood Sprinkler Co., 208 Columbia St., Seattle, Wash.
- BUSS, William Laing (Associate, 1912), Mgr. Chicago Office, Pittsburgh Valve, Fdy. & Constr. Co., 1215 Marquette Bldg., Chicago, and Lombard, Ill.
- BUSSE, F. Ewald (1913), V. P., Barry-Wehmiller Mchy. Co., St. Louis, Mo.
- BUTCHER, Joseph J. (1892), Cons. Engr., Motor Truck Dept., Guiler Engrg. Co., and *for mail*, 59 Pearl St., South Framingham, Mass.
- BUTLER, Matthew Joseph (1912), Cons. Engr., Armstrong Whitworth of Canada, Ltd., 22 Victoria Sq., Montreal, and *for mail*, 634 Belmont Ave., Westmount, Que., Canada.
- BUTTERFIELD, Thomas E. (1912), Asst. Prof. Mech. Engrg., Lehigh Univ., and *for mail*, 4 University Park, South Bethlehem, Pa.
- BUTTOLPH, Benjamin Gilbert (1905), V. P. and Engr., Mfrs.' Mut. Fire Ins. Co., 815 Grosvenor Bldg., and 315 Thayer St., Providence, R. I.
- BUVINGER, George A. (1901; 1904), Engr. Hyd. Dept., Platt Iron Wks. Co., and *for mail*, 971 Cottage Grove Ave., Dayton, O.

- BUYERS, Archie Stanton (Junior, 1912), Second Lieut., Coast Artillery Corps, U. S. A., Fort Hancock, N. J., and 1202 W. 3d St., Sterling, Ill.
- BYLLESBY, H. M. (1882), Pres., H. M. Byllesby & Co., Ins. Exch. Bldg., and 4358 Drexel Blvd., Chicago, Ill.
- CADWALLADER, Harry, Jr. (1913), Efficiency Engr., 106 Loomis St., and 1869 Ogden Ave., Chicago, Ill.
- CAINE, Wm. Phillips (1899; Associate, 1904), Steam Expt., Tenn. Coal, Iron & R. R. Co., and *for mail*, P. O. Box 27, Ensley, Ala.
- CAIRD, Robert (1884), Managing Dir., Caird & Co., Ltd., and *for mail*, 56 Esplanade, Greenock, Scotland.
- CAIRNS, William (1911), Genl. Mgr., The Parish & Bingham Co., Cleveland, and *for mail*, 1422 Lincoln Ave., Lakewood, O.
- CALDER, C. B. (1895), V. P. and Genl. Mgr., The Toledo Ship-building Co., and 623 W. Bancroft St., Toledo, O.
- CALDER, John (1903), Engr., Willett, Sears & Co., 60 Federal St., Boston, Mass.
- CALDERWOOD, James P. (Junior, 1913), Assoc. Prof. Mech. Engrg., Pa. State College, State College, Pa.
- CALDWELL, James Henry (1912), Pres., Genl. Mgr. and Engr., The Ludlow Valve Mfg. Co., Troy, N. Y.
- CALLAN, William H. (1913), Mgr. Compressor Plant, Chicago Pneu. Tool Co., and *for mail*, 24 Tenth St., Franklin, Pa.
- CAMERON, Barton H. (1903), Pres., Cameron Stove Co., Box 635, and *for mail*, 1804 Hanover Ave., Richmond, Va.
- CAMP, Geo. E. (1893), Supt., Foster Bros. Mfg. Co., and 7 Noyes St., Utica, N. Y.
- CAMP, Henry Phillips (Associate, 1913), Mech. Engr., Remington Arms-Union Metallic Cartridge Co., and *for mail*, 1978 North Ave., Bridgeport, Conn.
- CAMPBELL, Andrew C. (1885; 1889), Cons. Engr., Pres. and Mgr., Andrew C Campbell, Inc., 42 State St., and *for mail*, 186 Hillside Ave., Waterbury, Conn.
- CAMPBELL, Gordon (Junior, 1891), Pres. and Genl. Mgr., York Rys. Co., 27 W. Market St., and R. F. D. No. 9, York, Pa.
- CAMPBELL, Gordon M. (1906), Turbine Dept., Genl. Elec. Co., West Lynn, Mass.
- CAMPBELL, Jeremiah (Associate, 1896), Gloucester, and Ipswich, Mass.
- CANADY, J. F. (1913), Pres. and Genl. Mgr., Blaisdell-Canady Co., 90 West St., New York, N. Y., and 21 Park St., Jersey City, N. J.
- CANBY, Harry Beaver (Junior, 1904), V. P., Crawford, McGregor & Canby Co., and *for mail*, 308 Central Ave., Dayton, O.
- CAPEN, Thomas W. (1883), 748 Ogden Ave., Benton Harbor, Mich.
- CAPP, John Allen (1901), Ch. of Test Lab., Genl. Elec. Co., and *for mail*, 1332 Union St., Schenectady, N. Y.
- CARACRISTI, V. Z. (1904; 1907), Cons. Engr., 100 State St., and 92 Willett St., Albany, N. Y.

- CARBO, L. A. (Junior, 1909), Engr. and Rep., J. G. White & Co., Ltd., 9 Cloak Lane, Cannon St., London, E. C., England.
- CARD, Frederic M. (1906), 116 Edna Ave., Bridgeport, Conn.
- CARDULLO, Forrest Ellwood (1910), Prof. Mech. Engrg., New Hampshire College, Durham, N. H.
- CAREW, Clement J. (1902), V. P. and Mgr., Venango Mfg. Co., Franklin, Pa.
- CAREY, Herbert Wood (Junior, 1910), Ch. Asst. Engr., Laramie Water Co., Laramie, Wyo.
- CARGILL, Walter Neal (1912), Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, and *for mail*, 25 Addison St., Arlington, Mass.
- CARHART, Alfred B. (1907), Supt., Crosby Steam Gage & Valve Co., Boston, and *for mail*, 10 Roland St., Charlestown, Mass.
- CARHART, Herbert A. (1912), Designer, Smith Premier Wks., and *for mail*, 414 Douglas St., Syracuse, N. Y.
- CARIS, Ivan Burdell (1912), Semet-Solvay Co., and *for mail*, 215 Delaware St., Syracuse, N. Y.
- CARISS, Carington Carysfort (Junior, 1911), Ch. Draftsman, E. Leonard & Sons, Ltd., and *for mail*, 396 Glebe St., London, Ont., Canada.
- CARLE, Nathaniel A. (1907), Ch. Engr., Pub. Service Elec. Co., Newark, N. J.
- CARLETON, Robert Arthur (1913), Insp. of Constr., Edison Elec., Ill. Co., Boston, and *for mail*, 14 Hobart St., Brighton, Mass.
- CARLSSON, Carl A. V. (1905), Ordnance Engr., Bureau of Ordnance, Navy Dept., and 3921 Eighth St., N. W., Washington, D. C.
- CARLTON, Willard G. (1906), Supt. of Power, Elec. Div., N. Y. C. & H. R. R., Grand Central Sta., New York, N. Y.
- CARNEGIE, Andrew (1890; Honorary, 1907), 2 E. 91st St., New York, N. Y.
- CARPENTER, Alfonso H. (Associate, 1895), care of Estates Dept., The Cleveland Trust Co., Cleveland, O.
- CARPENTER, Allan O. (Associate, 1909), Designing Dept., Ingersoll-Rand Co., Painted Post, and *for mail*, 129 E. 1st St., Corning, N. Y.
- CARPENTER, Charles A. (Junior, 1912), Genl. Foreman, Camden Iron Wks., Camden, N. J., and 5437 B Walnut St., Philadelphia, Pa.
- CARPENTER, Charles Irving (Junior, 1912), Head Dept. of Manual Arts, Spokane Public Schs., Box 2103, Spokane, Wash., and 7604 Lowe Ave., Chicago, Ill.
- CARPENTER, Charles U. (1907), Pres., Fire-Proof Furniture & Constr. Co., Miamisburg, O., Pres., Midland Ores & Patents Co., Rm. 611, 80 Maiden Lane, New York, N. Y.
- CARPENTER, Harold (1908), Res. Engr. Astoria Tunnel, Astoria Light, Heat & Power Co., 132d St. and Locust Ave., and *for mail*, 977 Whitlock Ave., Hunts Point, New York, N. Y.

- CARPENTER, Henry Albert (1893; 1899), V. P., Riter-Conley Mfg. Co., 56 Water St., Pittsburgh, and *for mail*, R. F. D. 3, Sewickley, Pa.
- CARPENTER, Horace (1912), Coffin Valve Co., Boston, and *for mail*, 44 S. Central Ave., Wollaston, Mass.
- CARPENTER, James M. (1907), Pres., Treas. and Genl. Mgr., J. M. Carpenter Tap & Die Co., 17 Newell Ave., and 199 West Ave., Pawtucket, R. I.
- CARPENTER, Ralph Emerson (Associate, 1913), Sales Mgr., Taft-Peirce Mfg. Co., and 93 Spring St., Woonsocket, R. I.
- CARPENTER, Randle Churchill (1912), Prof. Mech. Engrg., Supt. Power Plant, Miss. Agri. and Mech. College, Agricultural College, Miss.
- CARPENTER, Raymond (1911), Ch. Engr. with Walter J. Jones, 30 Church St., New York, N. Y., and *for mail*, 385 Park Ave., East Orange, N. J.
- CARPENTER, Rolla C. (1883), Vice-President, 1908-1910; Cons. Engr., Prof. Exper. Engrg., Sibley College, Cornell Univ., and 125 Eddy St., Ithaca, N. Y.
- CARR, Jesse Douglas (1910), 2506 W. 8th St., Los Angeles, Cal.
- CARRIER, Willis H. (1905; 1912), Ch. Engr., Buffalo Forge Co., V. P. and Cons. Engr., Carrier Air Conditioning Co., 490 Broadway, and *for mail*, 1350 Amherst St., Buffalo, N. Y.
- CARROLL, Alexander W. (1905), Mech. Engr., Barclay, Parsons & Klapp, 60 Wall St., New York, N. Y., and *for mail*, 524 Westminster Ave., Elizabeth, N. J.
- CARROLL, Elbert Henry (1900), Supt., Morgan Constr. Co., 21 Lincoln St., and *for mail*, Rutland Terrace, Worcester, Mass.
- CARROLL, John Thomas (1913), Asst. Genl. Supt. M. P., Baltimore & Ohio R. R., Baltimore, Md.
- CARROLL, Lafayette D. (1888), Life Member; Mech. Engr., care of Humphreys & Glasgow, 38 Victoria St., London, S. W., England.
- CARROLL, M. B. (Junior, 1911), Turbine Sales Dept., Genl. Elec. Co., Bldg. 64, Lynn, Mass., and 122 Glenwood Blvd., Schenectady, N. Y.
- CARSE, David Bradley (1889), Pres., D. B. Carse & Co., City Investing Bldg., New York, N. Y.
- CARSE, John B. (1903), Member Advisory Com., U. S. Steel Corp., 71 Broadway, and Riverdale-on-Hudson, New York, N. Y.
- CARSON, Charles M. (1913), Factory Mgr., Cadillac Motor Car Co., and *for mail*, 172 Bethune Ave., W., Detroit, Mich.
- CARSON, Whitfield Robert (1910), Engr., The Grasselli Chem. Co., and 1530 Clarence Ave., Cleveland, O.
- CARSTENS, Alexander Bismarck (1906), Supt. of Mchy., Cia Minera de Penoles S. A., and *for mail*, Ojuela, Mapimi, Durango, Mex.
- CARTER, Edgar Robert, Jr. (Junior, 1911), Engr., Fafnir Bearing Co., New Britain, and *for mail*, Berlin, Conn.
- CARTER, Emmett B. (1912), Ch. Engr., Midvale Steel Wks., Philadelphia, Pa.

- CARTER, Harold Thomas (Junior, 1910), Engr., Water Works, Aish Bagh, Lucknow, India.
- CARTER, Henry W. (1892; 1903), Mech. Expt., 635 Monadnock Blk., and 6132 Winthrop Ave., Chicago, Ill.
- CARTER, Wm. A. (1911), Contr. and Consultant, Gifford House, and *for mail*, P. O. Box 139, Bulawayo, Rhodesia, S. A.
- CARTY, Roy Franklin (Junior, 1912), Mech. Engr., Div. of Loco. Boiler Inspc., Interstate Commerce Com., and *for mail*, 1234 Harvard St., Washington, D. C.
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- CASE, Albert H. (Junior, 1903), Santa Fe Gold & Copper Min. Co., 11 Broadway, New York, N. Y.
- CASE, G. Harry (1911), Ch. Mech. Engr., Jos. T. Ryerson & Son, and *for mail*, 6717 Sheridan Rd., Chicago, Ill.
- CASE, Milo McClelland (Junior, 1909), Mech. Engr., 517 Monadnock Blk., Chicago, and 163 Illinois St., Joliet, Ill.
- CASH, Arthur Wise (1899), Charge Regulating Valve and Engrg. Dept., H. Mueller Mfg. Co., and 1074 W. Eldorado St., Decatur, Ill.
- CASLER, Frank W. (1913), Genl. Supt. Plants, Public Service Elec. Co., 759 Broad St., Newark, and 456 Summit Ave., South Orange, N. J.
- CASLER, Herman (Junior, 1901), Mfr., Canastota, N. Y.
- CASSIDY, Andrew George (1911), M. M., Waltham Watch Co., Waltham, Mass.
- CASSIDY, Perry Rogan (Junior, 1913), Instr. Steam Engrg., College of Mech. and Elec. Engrg., State Univ. of Ky., Mech. Hall, Lexington, Ky.
- CASTANEDO, Walter (1907; 1909), Dist. Mgr., Power Plant Equip., 1103 Hennen Bldg., and *for mail*, 5425 Poytania St., New Orleans, La.
- CASTEELS, Aime (Junior, 1912), 508 S. Lawndale Ave., Chicago, Ill.
- CASTLE, John S. P. (Junior, 1899), Ch. Engr., Benedict and Burham Branch, Am. Brass Co., and 161 Willow St., Waterbury, Conn.
- CASTLE, S. N. (1909; 1911), Genl. Elec. Co., 30 Church St., New York, N. Y.
- CATHCART, William L. (1899), Cons. Engr., Gwynedd Valley, Pa.
- CATLIN, Abel Delancy (1906; 1907), V. P. and Wks. Mgr., The Wheland Co., and *for mail*, 612 Vance Ave., Chattanooga, Tenn.
- CATLIN, William Lyle (Junior, 1906), Supt., The Wheland Co., and 608 Kirby Ave., Chattanooga, Tenn.
- CATTELL, William A. (1901), Cons. Engr., Foxcroft Bldg., San Francisco, Cal.
- CAUM, Samuel L. (Junior, 1909), Mech. Engr., South Bethlehem Natl. Bank Bldg., South Bethlehem, and *for mail*, 9th and Prospect Aves., Bethlehem, Pa.

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- CHADWICK, Lee S. (1899; 1909), Mech. Engr., Cleveland Fdy. Co. and Cleveland Metal Products Co., Ivanhoe Rd., and *for mail*, 54 Hastings Ave., East Cleveland, O.
- CHALKLEY, Henry G. (1908), Mgr. and Engr., North Am. Land & Timber Co., and 920 Kirby St., Lake Charles, La.
- CHALLEN, Paull Jewill (Associate, 1897), Matteawan, N. Y.
- CHALMERS, John Brown (Junior, 1911), Instr., Pratt Inst., and *for mail*, 326 Lafayette Ave., Brooklyn, N. Y.
- CHALMERS, William J. (Associate, 1902), Dir., Chalmers & Williams, 72 W. Adams St., and Fraser & Chalmers, Ltd., of London, and 1100 Lake Shore Drive, Chicago, Ill.
- CHAMBERLAIN, A. B. (1911), Engr. Steam Div., Sta. Engrg. Dept., The Edison Elec. Ill. Co., 39 Boylston St., Boston, and *for mail*, 24 York St, Dorchester, Mass.
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- CHAMBERLAIN, Paul Mellen (1890; 1899), Cons. Engr., Chamberlain & Howell, Engrs., 1719 Marquette Bldg., Chicago, Ill.
- CHAMBERS, Charles E. (1913), Supt. M. P., Central R. R. of N. J., Jersey City, and *for mail*, 135 Fourth Ave., Roselle, N. J.
- CHAMBERS, F. G. (1902), Supt., Straight Line Eng. Co., and *for mail*, 111 Davis St., Syracuse, N. Y.
- CHAMBERS, Norman C. (Junior, 1905), Niles-Bement-Pond Co., 111 Broadway, New York, N. Y.
- CHAMPION, Harry W. (1904), Pres., Newton Mch. Tool Wks., Inc., 24th and Vine Sts., and *for mail*, 2018 Mt. Vernon St., Philadelphia, Pa.
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- CHANDLER, Clarence Austin (1900), 31 State St., Boston, and *for mail*, East Bridgewater, Mass.
- CHANDLER, Howard M. (1913), Cons. Mech. Engr., United Sugar Cos., Los Mochis, Sinaloa, Mex., and *for mail*, 1723 Fairchild Ave., Manhattan, Kan.
- CHANDLER, Howard T. (1912), Asst. Supt., Walter Baker & Co., Ltd., Dorchester, and *for mail*, 20 Blue Hill Ave., Mattapan, Mass.
- CHANDLER, Richard Edward (1911), Dean of Engrg., Okla. Agri. and Mech. College, Stillwater, Okla.
- CHANDLER, Sellers McKee (Junior, 1905), Pres., Chandler-Boyd Supply Co., Terminal Warehouses, and *for mail*, 8 B, Bellefield Dwellings, Pittsburgh, Pa.

- CHAPMAN, Cloyd M. (1910), Engr. of Tests, Westinghouse Church Kerr & Co., 37 Wall St., New York, and Douglaston, L. I., N. Y.
- CHAPMAN, David Albert (1908; Associate, 1912), Mech. Supt., Wm. Filene's Sons Co., Washington, Summer and Hawley Sts., Boston, and *for mail*, 163 Grover Ave., Winthrop, Mass.
- CHAPMAN, Frank Tomes (1909), East. Mgr. Vento Dept., Am. Radiator Co., Rm. 501, 104 W. 42d St., New York, N. Y., and 33 Melrose Pl., Montclair, N. J.
- CHAPMAN, George (1912), Draftsman, Nairn Linoleum Co., Kearny, and *for mail*, 446 Belgrove Drive, Arlington, N. J.
- CHAPMAN, Harry Burdett (1910), Owner, Chapman Engrg. Co., Texas City, Tex.
- CHARAVAY, Marius A. (Junior, 1908), Instr. Exper. Engrg., Stevens Inst. of Tech., Hoboken, and 67 Reservoir Ave., Jersey City, N. J.
- CHARLES, Alfred Wm. (Associate, 1909), Ch. Draftsman, Anaconda Copper Min. Co., P. O. Box 1375, and 1720 Oregon Ave., Butte, Mont.
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- CHASE, Frederic A. (Associate, 1902), F. A. Chase & Co., and 285 Governor St., Providence, R. I.
- CHASE, Henry Mayo (1906), Mech. Engr., Deane Steam Pump Co., and *for mail*, 21 Allyn St., Holyoke, Mass.
- CHASE, Leon Wilson (1907; 1912), Head Prof. Agri. Engrg., Univ. of Neb., Univ. Farm, and 1245 N. 33d St., Lincoln, Neb.
- CHASTENEY, Charles D. (Junior, 1904), Asst. Mgr. and Mech. Engr., Louis Dejonge Co., and *for mail*, 170 Prichard St., Fitchburg, Mass.
- CHATAIN, Henri George (Associate, 1903), Engr. Gas Eng. Dept., Genl. Elec. Co., Erie, Pa.
- CHATARD, Wm. M. (1903; 1909), Member of Firm, Chatard & Norris, Contr. Engrs., 1415 Continental Bldg., Baltimore, Md.
- CHEETHAM, Joseph H. (Junior, 1913), Mech. Expt. Dept., Crane Co., 836 S. Michigan Ave., and *for mail*, 3828 Washington Blvd., Chicago, Ill.
- CHEEVER, Markham (1910), Engr., Utah Power & Light Co., Salt Lake City, Utah.
- CHENEY, H. W. (1897; 1905), Engr. Elec. Dept., Allis-Chalmers Co., and *for mail*, 121 31st St., Milwaukee, Wis.
- CHENEY, Nathan (1906), Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- CHENEY, Walter L. (1883), Sales Mgr., Lucas Mch. Tool Co., Cleveland, O.
- CHERRY, William Alexander, Jr. (Junior, 1912), Engr., The Fla. Abstract & Title Security Co., 139 E. Forsyth St., and 231 E. Church St., Jacksonville, Fla.

- CHESS, Harvey B., Jr. (Junior, 1909), Pres., The Consld. Expanded Metal Cos., Braddock, and 814 Aiken Ave., E. E., Pittsburgh, Pa.
- CHESTER, C. P. (Associate, 1908), Asst. Supt., Stone & Webster Engrg. Corp., 606 Flatiron Bldg., Fort Worth, Tex.
- CHESTER, John Needels (1905), Chester & Fleming, Cons. Engrs., Union Bank Bldg., Pittsburgh, Pa.
- CHEYNEY, Algernon R. (1912), Supt. of Operation, Philadelphia Elec. Co., 28th and Christian Sts., res., 5717 Ashland Ave., Philadelphia, Pa.
- CHILD, Earnest T. (1903), Pres., Child & Scott Co., 112 Wooster St., New York, N. Y., and *for mail*, 70 Mt. Pleasant Ave., West Orange, N. J.
- CHILD, Stanley G. (1912), Foreman of Mch. Shop, Baldwin Loco. Wks., Philadelphia, and *for mail*, 400 Linden St., Jenkintown, Pa.
- CHILDS, Harold P. (Junior, 1903), Mgr. Philadelphia Office, Westinghouse Mch. Co., North Am. Bldg., Philadelphia, and 6342 Greene St., Germantown, Philadelphia, Pa.
- CHISHOLM, John James (Associate, 1904), Supt. of Power, Tenn. Coal, Iron & R. R. Co., and 1823 29th St., Ensley, Ala.
- CHOATE, William E. (1912), Genl. Mgr., Carr Fastener Co., 31 Ames St., Cambridge, and Asbury St., Hamilton, Mass.
- CHORLTON, Alan E. L. (1913), Engrg. Mgr., Ruston Proctor & Co., Ltd., Sheaf Iron Wks., Lincoln, England.
- CHOWINS, Chas. E. (Associate, 1906), Supt. of Bldgs., Grounds and Constr., Univ. of Neb., and 1802 Washington St., Lincoln, Neb.
- CHRISTEN, Armand B. (Junior, 1913), Engr., West. Elec. Co., 463 West St., and 46 Manhattan Ave., New York, N. Y.
- CHRISTENSEN, Chas. C. (1890), Estimating Engr., Allis-Chalmers Co., and *for mail*, 2944 Logan Blvd., Chicago, Ill.
- CHRISTENSEN, Otto R. (1911; 1913), Pres., The Christensen Engrg. Co., and *for mail*, 3534 Wrightwood Ave., Chicago, Ill.
- CHRISTIANSON, Andrew (1907), Ch. Engr. Engrg. Dept., Stand. Steel Car Co., and 198 W. Pearl St., Butler, Pa.
- CHRISTIE, Alexander G. (Associate, 1907), Assoc. Prof. Steam Engrg., Univ. of Wis., Madison, Wis.
- CHRISTIE, E. W. (1890), Mech. Engr., Wheeler Condenser & Engrg. Co., Carteret, and *for mail*, P. O. Box 74, Sewaren, N. J.
- CHRISTIE, Wm. Wallace (1889), Cons. Engr., Citizens' Trust Co. Bldg., and *for mail*, 527 14th Ave., Paterson, N. J.; also, 177 Broadway, New York, N. Y.
- CHURCH, Austin (Junior, 1895), Pres., Church Quarry Co., Sibley, Mich.
- CHURCH, Edwin Fayette, Jr. (1912), Prof. Mch. Design and Constr., W. Va. Univ., Morgantown, W. Va.
- CHURCH, Elihu Cunyngham (1908; 1913), Secy., Dept. of Water Supply, Gas and Elec., and Ch. of Bureau of Supplies, 13-21 Park Row, and *for mail*, 4 E. 130th St., New York, N. Y.

- CHURCH, Harold Douglas (1913), Truck Engr., Packard Motor Car Co., Detroit, Mich.
- CHURCH, Maynard D. (1912), Ch. Engr., Dayton Turbine Pump Co., 605 Am. Trust Bldg., and *for mail*, 14,730 Clifton Blvd., Cleveland, O.
- CHURCH, Wm. Lee (1880), Manager, 1884-1887; Pres., and Cons. Engr., Ambursen Hyd. Constr. Co., 88 Pearl St., Boston, and Newton Centre, Mass.; also, Trinity Bldg., New York, N. Y.
- CHURCHILL, Charles O. (1906), Salesman, Lackawanna Steel Co., 40 Central St., Boston, and *for mail*, 28 Union St., Westfield, Mass.
- CHUTE, James Potter (1912), Supt. Floating Equip., Jay Street Terminal, and *for mail*, 635 11th St., Brooklyn, N. Y.
- CLAPP, Geo. H. (1891), Cor. 7th and Bedford Aves., Pittsburgh, and Edgeworth, Pa.
- CLARK, Charles Ethan (1911), Mfg. Saw Mill Mchy., Steam and Gas Eng., 406 N. Main St., Wellsville, N. Y.
- CLARK, Charles Paul (Junior, 1912), Clark & Norton Mfg. Co., Wellsville, N. Y.
- CLARK, Dean (1912), Wks. Mgr., South Bend Watch Co., South Bend, Ind.
- CLARK, Edward Lord (Associate, 1905), Mgr. Boston Office, Westinghouse Mch. Co., 201 Devonshire St., Boston, and 40 Griggs Rd., Brookline, Mass.
- CLARK, Farley Granger (1907), Ch. Engr., Toronto Power Co., Toronto Elec. Light Co., Toronto St. Ry. Co., and *for mail*, 12 Adelaide St., E., Toronto, Ont., Canada.
- CLARK, Frank C. (1913), Asst. Supt. of Erection, Isthmian Canal Com., Culebra, Canal Zone.
- CLARK, Frank Henry (1910), Genl. Supt. M. P., B. & O. R. R., Baltimore, Md.
- CLARK, Frank S. (1909; 1912), Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- CLARK, Herbert Hamilton (1908), Mgr., Chas. C. Moore & Co. Engrs., 424-425 I. N. Van Nuys Bldg., and 85 Victoria Park, Los Angeles, Cal.
- CLARK, Howard B. (1910), East. Rep., The McNaul-Boiler Mfg. Co. of Toledo, O., 611 W. 137th St., New York, N. Y.
- CLARK, John Henry (1906), 18 Ardsley Rd., Schenectady, N. Y.
- CLARK, Myron Henry (1913), Asst. Supt. of Factories, Boston Rubber Shoe Co., and *for mail*, 43 Glen Rock Circle, Malden, Mass.
- CLARK, W. Van Alan (Junior, 1910), Supt's. Asst., Astoria Light, Heat & Power Co., Astoria, L. I., N. Y.
- CLARK, Walter L. (1888), V. P., Niles-Bement-Pond Co., and Pratt & Whitney Co., 111 Broadway, New York, and Dongan Hills, S. I., N. Y.
- CLARK, Walter R. (Associate, 1908), Mech. Engr., Bridgeport Brass Co., and *for mail*, 1875 Park Ave., Bridgeport, Conn.
- CLARK, Walton (1890), Second V. P., United Gas Improvement Co., Broad and Arch Sts., and Chestnut Hill, Philadelphia, Pa.

- CLARK, William Chas. M. (1913), Mech. Htg. and Ventilating Engr., J. Milton Dyer, Arch., 825 Cuyahoga Bldg., and *for mail*, 1344 E. 85th St., Cleveland, O.
- CLARKE, Alfred (1886), Pres., Gas & Elec. Corps., 77 Franklin St., Boston, Mass., and Walpole, N. H.
- CLARKE, Arthur French (Associate, 1913), Priest, Page & Co., 145 Franklin St., Boston, Mass.
- CLARKE, Charles Edwin (Junior, 1912), Genl. Mill Repair Foreman, Cambria Steel Co., and *for mail*, 212 Clarion St., Johnstown, Pa.
- CLARKE, Charles L. (1882), Cons. Engrg. Dept., Genl. Elec. Co., Schenectady, N. Y.
- CLARKE, Charles Warrington E. (1907; 1913), Mech. Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, and *for mail*, 197 Rawson Rd., Brookline, Mass.
- CLARKE, Leon L. (1912), Elec. and Mech. Engr., Rm. 10, 106 N. La Salle St., Chicago, Ill.
- CLARKE, Philip L. (Junior, 1907), Ch. Elec., Mexican Sugar Refining Co., Ingenio Santa Fe, Tlacotalpan, Veracruz, Mex.
- CLARKE, Samuel J. (1884), 51 Wall St., and *for mail*, 309 W. 103d St., New York, N. Y.
- CLASSEN, Edward Hell (Junior, 1912), The Am. Appraisal Co., Milwaukee, Wis.
- CLAYTON, J. Paul (Junior, 1911), Mgr. Commercial Dept., Central Ill. Pub. Service Co., and 1500 Wabash Ave., Mattoon, Ill.
- CLEGG, Robert Ingham (1902), Managing Editor, Blast Furnace and Steel Plant, Automobile Builder, Wood Craft, and Castings, V. P., Gardner Ptg. Co., Caxton Bldg., and 10,600 Hampden Ave., Cleveland, O.
- CLEMENS, A. B. (1904), Prin. Sch. Mech. Engrg., Internatl. Corr. Schs., and 1034 Woodlawn St., Scranton, Pa.
- CLERGUE, Bertrand J. (Associate, 1907), Canadian Express Bldg., Montreal, Que., Canada.
- CLIFFORD, Oliver Chas. (1903), Dept. of Elec. Engrg., Armour Inst. of Tech., 33d and Armour Ave., and *for mail*, 6020 Monroe Ave., Chicago, Ill.
- CLOUD, John W. (1880), V. P., West. B. Co., Ltd., 82 York Rd., King's Cross, London, N., England.
- CLOUDSLEY, David B. (Associate, 1908), Asst. to Ch. Engr., Bureau of Water, and *for mail*, 43 Massachusetts Ave., Buffalo, N. Y.
- CLOUDSLEY, James B. (1892), Ch. Engr. Pumping Sta., Bureau of Water, and *for mail*, 43 Massachusetts Ave., Buffalo, N. Y.
- CLOUGH, Wm. R. (1899), Prop., Rockwell Clough Co., Alton, N. H.
- CLOUSER, George Lawson (Junior, 1913), Spec. Apprentice M. P. Dept., Philadelphia & Reading R. R., and *for mail*, 137 Greenwich St., Reading, Pa.
- CLUETT, Albert Edmund (1900; 1903), Mech. Engr., Cluett Peabody & Co., and *for mail*, P. O. Box 666, Troy, N. Y.

- CLUETT, Sanford L. (1903; 1911), First V. P. and Secy., Walter A. Wood Mowing & Reaping Mch. Co., Hoosick Falls, N. Y.
- CLYNE, Robert G. (1913), Mgr., The West. Cartridge Co., and *for mail*, 2400 Edward St., Alton, Ill.
- COATES, E. Osborne (Junior, 1913), Member of Exper. Dept., Wm. Sellers & Co., Inc., 1600 Hamilton St., Philadelphia, and *for mail*, Gladwyne P. O., Montgomery Co., Pa.
- COBB, Charles Carroll, Jr. (Junior, 1912), Asst. to Mech. Engr., Kewanee Wks., Natl. Tube Co., and *for mail*, 233 Dwight St., Kewanee, Ill.
- COBB, Geo. H. (1891), Genl. Mgr., N. Y. Transit Co., 802 Kilmer Bldg., and 28 Frederick St., Binghamton, N. Y.
- COBB, Stephen Prentis (Associate, 1910), Albany So. R. R., Albany, N. Y.
- COBB, Willard Halsey (Junior, 1912), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, and *for mail*, Babylon, N. Y.
- COBLEIGH, Henry R. (Junior, 1904), Managing Editor, Power, 505 Pearl St., New York, and 503 E. 8th St., Brooklyn, N. Y.
- COBURN, Frederic G. (1912; 1913), Asst. Naval Constr., U. S. N., Shop Supt., Navy Yard, Hull Div., Philadelphia, Pa.
- COBURN, Howard L. (1901), Secy. and Ch. Engr., Ambursen Hyd. Constr. Co., 88 Pearl St., and *for mail*, Tech. Chambers, Boston, Mass.
- COBURN, R. G. (Junior, 1901), 19 S. Central St., Chanute, Kan.
- COCHRANE, Robert B. (1903), 555 Frost Ave., Rochester, N. Y.
- COCKBURN, Francis B. (1910), Ch. Draftsman, Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave., and 4225 Brookside Ave., Cincinnati, O.
- COCKS, Frank Lawrence (Associate-Member, 1913), Spec. Designer, Arbuckle Bros., foot of Jay St., and *for mail*, 709 53d St., Brooklyn, N. Y.
- COES, Harold V. O. (1907; 1913), Spec. Prin. Asst., Lockwood, Greene & Co., 60 Federal St., Boston, and 982 Beacon St., Newton Centre, Mass.
- COFFIN, Frank M. (1907), Supt., Wheeler-McDowell Elev. Co., 417-421 Canal St., and *for mail*, 272 Manhattan Ave., New York, N. Y.
- COFFIN, Howard E. (1907), V. P., Hudson Motor Car Co., Detroit, and Grosse Pointe Shores, Mich.
- COFFIN, Mitchell (Junior, 1913), S. M. Ryder & Son, Niagara Falls, N. Y.
- COFFIN, Trenmor (Junior, 1912), Instr. Elec. Engrg., in Charge of Shop Wk., Univ. of Tex., Austin, Tex.
- COFFIN, Wm. Carey (1894), Struc. Engr., Jones & Laughlin Steel Co., and *for mail*, 5930 Howe St., Pittsburgh, Pa.
- COGHLIN, John P. (1901), Pres. and Treas., Coghlin Elec. Co., 257 Main St., and *for mail*, Box 35, Worcester, Mass.
- COGSWELL, Wm. B. (1880), Manager, 1880-1882; V. P. and Managing Dir., The Solvay Process Co., and 1234 James St., Syracuse, N. Y.

- COLBY, Albert Ladd (1893), Cons. Engr., and Iron, Steel and Fuel Metallurgist, 447 Lehigh St., South Bethlehem, Pa., and 165 Broadway, New York, N. Y.
- COLE, Arthur W. (1904; 1911), Assoc. Prof. Mech. Engrg., Purdue Univ., Lafayette, and *for mail*, 224 Waldron St., West Lafayette, Ind.
- COLE, Charles S. (1912), Secy. and Treas., Columbia Steel Co., Pittsburg, Cal.
- COLE, Cyrus L. (1908; 1913), Centrifugal Pump Engr. Sales Dept., Epping-Carpenter Co., and *for mail*, 1021 Jancey St., Pittsburgh, Pa.
- COLE, Dwight S. (1903), Cons. Engr. and Mech. Expt., 623 Ash-ton Bldg., and *for mail*, 241 Lafayette Ave., S. E., Grand Rapids, Mich.
- COLE, Edward S. (1897; 1906), Hyd. Engr., 220 Broadway, New York, N. Y., and 133 Bellevue Ave., Upper Montclair, N. J.
- COLE, Francis J. (1888), Ch. Cons. Engr., Am. Loco Co., and *for mail*, 3 Avon Rd., Schenectady, N. Y.
- COLE, Frank B. (1912), Ch. Engr., R. & D. Cole Mfg. Co., and 79 E. Brood St., Newnan, Ga.
- COLE, Fred Baker (1911), Prin. Asst. Engr., Chas. T. Main, 201 Devonshire St., Boston, Mass.
- COLE, J. Wendell (1883), Dist. Mgr., William Sellers & Co.'s Tool and Drill Grinders, and Detroit Emery Wheel Co., P. O. Box 84, Columbus, and *for mail*, Linworth, O.
- COLE, L. W. (1888; 1905), Cons. Engr., Eagle Sq. Mfg. Co., South Shaftsbury, Vt.
- COLE, Winthrop (1891; 1904), Mech. Engr., Engrg. Exper. Sta., U. S. Naval Acad., and 217 Hanover St., Annapolis, Md.
- COLEMAN, William Wheeler (1908), Pres., Bucyrus Co., South Milwaukee, and *for mail*, 323 Juneau Ave., Milwaukee, Wis.
- COLLES, Geo. Wetmore (1895; 1901), Cons. Elec. and Mech. Engr. and Pat. Expt., 404-405 Alhambra Bldg., Milwaukee, Wis.
- COLLETT, S. D. (1902), V. P., Elev. Supply & Repair Co., 105 W. 40th St., New York, and *for mail*, 365 Sterling Pl., Brooklyn, N. Y.
- COLLIER, Wm H. (1901; 1904), Genl. Mgr., Marathon Motor Wks., Nashville, Tenn.
- COLLINS, B. R. T. (1891; 1901), Cons. Mech. Engr. and Power Plant Economist, 201 Devonshire St., Boston, and *for mail*, 29 Oxford Rd., Newton Centre, Mass.
- COLLINS, Francis Alton, Jr. (Junior, 1910), Sales Dept., Auburn Ball Bearing Co., 29 Elizabeth St., and *for mail*, 124 Lenox St., Rochester, N. Y.
- COLLINS, Francis Winfield (1912), Cons. Engr., 50 Church St., New York, N. Y.
- COLMAN, Howard D. (1912), Member of Firm, Barber-Colman Co., Rockford, Ill.
- COLPITTS, James Vandever (Junior, 1913), Power Plant Equip., 27 S. 18th St., and 3726 Spring Garden St., Philadelphia, Pa.

- COLVIN, Fred H. (1895; 1899), Managing Editor, American Machinist, 505 Pearl St., New York, N. Y., and *for mail*, 56 N. Maple Ave., East Orange, N. J.
- COLWELL, Augustus W. (1880), Rm. 405, 79 Milk St., Boston, Mass.
- COLWELL, James V. V. (1903), Life Member; Didier-March Co., and *for mail*, 1765 Sedgwick Ave., New York, N. Y.
- COMLY, G. Norwood (1905; 1907), Soda Ash Dept., Solvay Process Co., Syracuse, N. Y.
- COMLY, Geo. N. (1880), 1816 W. Genesee St., Syracuse, N. Y.
- COMPTON, Robert William (Associate, 1913), So. Rep., Hooven, Owens, Rentschler Co., 1528 Candler Bldg., and 548 N. Blvd., Atlanta, Ga.
- COMSTOCK, Charles Warren (Associate, 1906), Ins., 910 Leader-News Bldg., and 8707 Carnegie Ave., Cleveland, O.
- COMSTOCK, Charles Worthington (1908), Engrg. Mgr., The Goldsborough Co., 514 First Natl. Bank Bldg., and 76 Grant St., Denver, Colo.
- COMSTOCK, Louis K. (1902), Pres., L. K. Comstock & Co., Inc., 30 Church St., New York, N. Y., and *for mail*, 195 Fernwood Ave., Upper Montclair, N. J.
- CONANT, Wm. S. (1895; 1904), Cons. Engr., Bank Chambers, 80 Griswold St., and *for mail*, 186 Seminole Ave., Detroit, Mich.
- CONARD, Wm. R. (Associate, 1906), Inspc. Engr., Savings Institution Bldg., and 1104 High St., Burlington, N. J.
- CONE, Admiral Hutchinson Ingham (1910), Commander U. S. N., U. S. S. Utah, care of Postmaster, New York, N. Y.
- CONLEE, George D. (Junior, 1906), Supt., The Chuctanunda Gas Light Co., 33 Market St., and 20 Grant Ave., Amsterdam, N. Y.
- CONNELL, John J. (1903), Agt., Booth Mfg. Co., New Bedford, Mass.
- CONNELLEY, Clifford B. (Associate, 1895), Dean of Sch. of Applied Industries, Carnegie Inst. of Tech., Schenley Park, and Osgood and Marsonia Sts., N. S., Pittsburgh, Pa.
- CONNET, Frederick N. (1908), Ch. Engr. and Sales Mgr. Venturi Meter Dept., Builders Iron Fdy., and 67 Whitmarsh St., Providence, R. I.
- CONNETT, Lyndon Rutan (Junior, 1898), 90 West St., New York, and *for mail*, Port Washington, L. I., N. Y.
- CONNOLLY, James H. (1913; 1913), Mech. Engr., Taft-Peirce Mfg. Co., Woonsocket, and *for mail*, 121 Spring St., Pawtucket, R. I.
- CONNON, George W. (1907), Engr. N. Y. Office, Honolulu Iron Wks. Co., 29 Broadway, New York, N. Y., and 174 Watchung Ave., Montclair, N. J.
- CONRAD, Ernest B. (1903), Supt., Elec. Launch Co., and *for mail*, 127 Humphreys Ave., Bayonne, N. J.
- CONRAD, Hugh Vincent (1887; 1891), Natl. Brake & Elec. Co., Milwaukee, Wis.
- CONRADER, Rudolph (1893), 708 Parade St., Erie, Pa.

- CONRATH, George B. (1907), Genl. Mgr., Nagle Corliss Eng. Wks., and *for mail*, 443 E. 6th St., Erie, Pa.
- CONSTANTINE, Joseph H. (1913), Instr. Industrial Arts, Teachers College, Columbia Univ., New York, N. Y.
- CONTI, Angelo (1913), Ch. Computing Draftsman, Bureau of Steam Engrg., Navy Dept., and *for mail*, Rm. 389, Navy Dept., Washington, D. C.
- CONVERSE, Bernard T. (1909), Engr. of Plant, Baldwin Loco. Wks., 500 N. 15th St., Philadelphia, and Rosemont, Pa.
- CONWAY, Geo. M. (1891), Cons. Mech. Engr. and Expt., Rm. 38, 204 Grand Ave., Milwaukee, Wis.
- CONWAY, George R. G. (1913), Ch. Engr., British Columbia Elec. Ry. Co., Ltd., and 1529 Comox St., Vancouver, B. C., Canada.
- COOK, Charles Bannister (Associate, 1913), Factory Mgr., Royal Typewriter Co., 150 New Park Ave., and *for mail*, 240 Collins St., Hartford, Conn.
- COOK, E. J. (1891), V. P. and Genl Mgr., N. Y. State Rys., Rochester Lines, 267 State St., and 233 Culver Rd., Rochester, N. Y.
- COOK, Harry Hall (Junior, 1910), Engr., The Chapman Valve Mfg. Co., Indian Orchard, and *for mail*, 44 Massachusetts Ave., Springfield, Mass.
- COOK, J. F. (1902), Cons. Mech. Engr., S. Neuman & Co., and The Consldt. Mines Selec. Co., Ltd., 54 Cullinan Bldg., and *for mail*, P. O. Box 485, Johannesburg, S. A.
- COOK, John P. (Junior, 1906), Asst. Engr., N. Y. C. & H. R. R. R. Co., 32 Albany Sta., and *for mail*, 131 Manning Blvd., Albany N. Y.
- COOK, Thomas R. (1911), Asst. Engr. M. P., Office Genl. Supt M. P., Pa. Lines West, and *for mail*, 205 N. Negley Ave. Pittsburgh, Pa.
- COOK, William Henry (Junior, 1910), Mgr., Bankers Bldg. Bureau, 106 E. 19th St., New York, N. Y., and *for mail*, 132 Quitman St., Newark, N. J.
- COOK, Wm. Pierson, Jr. (1911; Associate-Member, 1913), Asst. to Ch. Mech. Engr., Thompson-Starrett Co., 51 Wall St., New York, and Bright-Waters, L. I., N. Y.
- COOKE, Fred W. (1903), 384 Broadway, Paterson, N. J.
- COOKE, George William (1907), Supt., Pierce Arrow Motor Car Co., 1695 Elmwood Ave., and *for mail*, 100 Parkdale Ave., Buffalo, N. Y.
- COOKE, Harte (1897), Mech. Engr., McIntosh & Seymour Co., and *for mail*, 10 Jefferson St., Auburn, N. Y.
- COOKE, Morris Llewellyn (1903; 1909), Dir. of Pub. Wks., City Hall, Philadelphia, and *for mail*, 401 W. Walnut Lane, Germantown, Philadelphia, Pa.
- COOKE, Thomas F. (Junior, 1904), Asst. Secy., Charity Organization Soc., 181 Franklin St., and 618 Delaware Ave., Buffalo, N. Y.
- COOLEY, Erwin Stratton (1910), Supvr. of Power Plants, N. Y., N. H. & H. R. R., and *for mail*, 266 Willow St., New Haven, Conn.

- COOLEY, Hugh Nelson (Associate, 1910), 3414 Cedar St., Milwaukee, Wis.
- COOLEY, M. E. (1884), Vice-President, 1901-1903; Dean Depts. Engrg. and Arch., Univ. of Mich., and 1405 Hill St., Ann Arbor, Mich.
- COON, J. S. (1880), Prof. Mech. Engrg., Supt. of Shops, Sch. of Tech., and 26 Kimball St., Atlanta, Ga.
- COON, Thurlow E. (Junior, 1908), Mech. Engr., The Coon-De-Visser Co., 1924-1925 Ford Bldg., and 196 Edison Ave., Detroit, Mich.
- COOPER, Ellis W. (1912), Ch. Engr., Am. Assembling Mch. Co., 140 Nassau St., New York, N. Y., and *for mail*, 3 Garfield Pl., Upper Montclair, N. J.
- COOPER, Eugene Smith (Junior, 1912), Draftsman Invention Dept., Natl. Cash Register Co., and *for mail*, 233 Chestnut St., Dayton, O.; also, 77 W. Muskegon Ave., Muskegon, Mich.
- COOPER, Geo. S. (1909), Mech. Engr., Buckeye Eng. Co., Salem, O.
- COOPER, Henry R. (1890; 1895), Solvay Process Co., and *for mail*, 1921 W. Genesee St., Syracuse, N. Y.
- COOPER, Howell Carnaghan (1912), 667 Mulberry St., Clarksburg, W. Va.
- COOPER, Hugh Lincoln (1913), V. P. and Ch. Engr., Mississippi River Power Co., Keokuk, Ia.
- COPE, Robert Harper (Junior, 1912), Taylor-Wharton Iron & Steel Co., 178 High St., Boston, Mass.
- COPELAND, Stuart B. (Junior, 1913), Mech. Supt., Katahdin Pulp & Paper Co., Lincoln, Me.
- COPLAND, Alexander William (1913), Pres. and Genl. Mgr., Detroit Gear & Mch. Co., and *for mail*, 127 Franklin St., Detroit, Mich.
- COPP, Wayland John (Junior, 1912), Inspr. of Equip., Brooks Wks., Am. Loco. Co., and *for mail*, 431 Swan St., Dunkirk, N. Y.
- CORBETT, Chas. H. (1884), Manager, 1901-1904; V. P., The Continental Iron Wks., and *for mail*, 157 Lefferts Pl., Brooklyn, N. Y.
- CORBETT, R. H. (1904), Rep., Nordberg Mfg. Co., and *for mail*, 126 Garnet St., Houghton, Mich.
- CORBIN, Albert F. (1913), Pres., Union Mfg. Co., and *for mail*, 99 Vine St., New Britain, Conn.
- CORE, W. Wallace (Junior, 1907), 123 N. 4th St., Newark, N. J.
- COREY, Fred Brainard (1894; 1900), Engr. of Inspc. and Tests, Union Switch & Signal Co., Swissvale, and 245 Maple Ave., Edgewood Park, Pa.
- CORLETTE, Glen H. (Junior, 1910), Engr., Fairbanks, Morse & Co., 614 Calle Venezuela, Buenos Aires, Argentina, S. A.
- CORNELIUS, Henry Robert (1888), Sales Engr., Mesta Mch. Co., and Darlington Rd., Pittsburgh, Pa.
- CORNELIUS, William A. (Junior, 1893), Mgr., Natl. Tube Co., Natl. Wks., Genl. Mgr., McKeesport Connecting R. R., and "Manager's Residence," McKeesport, Pa.

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- CORP, Chas. I. (Junior, 1904), Asst. Prof. Hyd. Engrg., Univ. of Wis., and 810 Oakland Ave., Madison, Wis.
- CORREA, William Howard (Junior, 1910), Asst. Supt., Pratt Wks., Stand. Oil Co., Brooklyn, and *for mail*, Hotel Lucerne, Amsterdam Ave. and 79th St., New York, N. Y.
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- CORY, Harry Thomas (1893; 1905), Cons. Engr., 802 Nevada Bank Bldg., and 1060 Bush St., San Francisco, Cal.
- CORYELL, Edwin M. (1901), Cons. Engr., 11 Broadway, New York, N. Y., and 410 Richmond Ave., South Orange, N. J.
- COSTER, Edwd. Livingston (Associate, 1896), Life Associate; Broad Exch. Bldg., 25 Broad St., New York, and *for mail*, Irvington-on-Hudson, N. Y.
- CÖSTER, Eric Herbert (1910), Engr., Westinghouse, Church, Kerr & Co., New York, N. Y., and *for mail*, 9 Lawn Ridge Rd., Orange, N. J.
- COSTER, Maurice (1904), Export Mgr., Westinghouse Elec. & Mfg. Co., and Mgr. Export Dept., Westinghouse Mch. Co., 165 Broadway, and 350 W. 85th St., New York, N. Y.
- COTTMAN, Lewis Warrington (1912), Supt. and Ch. Engr., The Palmetto Phosphate Co., Keyser Bldg., and *for mail*, P. O. Box 782, Baltimore, Md.
- COTTON, Geo. G. (1902), Supt. of Constr., Solvay Process Co., Syracuse, and *for mail*, Fairmount, Camillus P. O., N. Y.
- COULTER, James (1913), V. P., The Automatic Mch. Co., Bridgeport, Conn., Providence Engrg. Wks., Providence, R. I., and 51 Hough Ave., Bridgeport, Conn.
- COUTANT, Jay Gould (Associate-Member, 1913), Engr. of Plant, Lima Loco. Corp., Lima, O., and *for mail*, 387 Third Ave., Watervliet, N. Y.
- COVELL, Harry N. (1891), Supt., Lidgerwood Mfg. Co., Dikeman St., Brooklyn, and 7 E. 19th St., Flatbush, Brooklyn, N. Y.
- COWELL, William August (Junior, 1913), Mech. Engr., Am. Rotary Valve Co., and *for mail*, 501 W. 10th St., Anderson, Ind.
- COWEN, Harry (Junior, 1913), Genl. Asst. and Designer, Mech. Engr's. Office, Central R. R. of N. J., Elizabethport, N. J., and *for mail*, 110 W. 113th St., New York, N. Y.
- COWGILL, Paul Everett (Junior, 1910), Traffic Ch. Central Union Tel. Co., Toledo, O.
- COWPERTHWAIT, Allan (Junior, 1899), A. B. See Elec. Elev. Co., 220 Broadway, New York, N. Y., and Hydewood Park, Plainfield, N. J.
- COX, Claude E. (Associate, 1907), Dir. Commercial Engrg. Labs., 88 Congress St., E., Detroit, Mich.
- COX, Frank G. (1905; Associate, 1908), Local Mgr., Otis Elev. Co., 218-220 E. 4th St., Los Angeles, Cal.

- COX, Frederick W. (1908), Engrg. Salesman, Shewan Tomes & Co., Hongkong, China.
- COX, Jacob Dolson (1881), Pres., The Cleveland Twist Drill Co., cor. Lakeside Ave. and E. 49th St., and 3411 Euclid Ave., Cleveland, O.
- COX, Millard F. (1913), Mech. Engr., Louisville & Nashville R. R. Co., and *for mail*, 2136 Park Pl., Louisville, Ky.
- COYLE, Andrew M. (1913), Fortifications, U. S. A., Army Bldg., Whitehall St., and *for mail*, 457 W. 123d St., New York, N. Y.
- CRAIG, Charles H., Jr. (1908), Member of Firm, McClintock & Craig, 33 Lyman St., Springfield, Mass.
- CRAIG, Howard Benton (Junior, 1899), Solvay Process Co., Syracuse, N. Y.
- CRAIG, James (1897), Mech. Engr., 807-841 Garfield Ave., Jersey City, N. J.
- CRAIG, Robert (Associate, 1907), Mgr., Power Equip. Co., 212-218 Third Ave., N., Minneapolis, and *for mail*, Robbinsdale, Minn.
- CRAIGHEAD, Magruder (Junior, 1910), Sales Dept., Otis Elev. Co., 600 W. Jackson Blvd., Chicago, and 861 Spruce St., Winnetka, Ill.
- CRAIGLOW, Harry H. (Junior, 1911), Plant Engr., The Buckeye Steel Castings Co., and 717 Wilson Ave., Columbus, O.
- CRAIN, John J. (1896; 1908), Elec. Engr., Fore River Shipbuilding Corp., and 57 Edgemere Rd., Quincy, Mass.
- CRANE, Arthur Morton (Associate, 1913), New York Continental Jewell Filtration Co., 15 Broad St., New York, N. Y.
- CRANE, Frederick Lea (Junior, 1912), Cadet Engr., Operating Dept., United Gas Improvement Co., Broad and Arch Sts., Philadelphia, Pa.
- CRANSTON, Raymond Earl (Junior, 1907), Engr., Mfrs. Mut. Fire Ins. Co., 815 Grosvenor Bldg., and *for mail*, P. O. Box 1485, Providence; also, 43 Lawn Ave., Pawtuxet, R. I.
- CRANSTON, Robert E. (1907), Min. Engr., 437 Holbrook Bldg., San Francisco, Cal.
- CRAWFORD, Charles C., Jr. (Junior, 1906), Mgr., Houston Office, A. M. Lockett & Co., Ltd., Brazos Hotel Bldg., Houston, Tex., and 612 Royal St., New Orleans, La.
- CRAWFORD, C. W. (1905), Pres., Crawford & M'Crimmon Co., and 147 Ridge St., Brazil, Ind.
- CRAWFORD, David Francis (1899), Manager, 1910-1913; Genl. Supt. M. P., Pa. Lines, Union Sta. and Rittenhouse, Pittsburgh, Pa.
- CRAWLEY, George E. (Junior, 1908), Raymond Concrete Pile Co., 140 Cedar St., and *for mail*, 548 W. 124th St., New York, N. Y.
- CREELMAN, Frank (1894), 203 W. 117th St., New York, N. Y.
- CRESSLER, Alfred David (1910), Pres. and Cons. Engr., The Kerr Murray Co., 122 S. Michigan Ave., and 607 Rush St., Chicago, Ill.
- CRESSLER, George Halloway (Junior, 1905), The Kerr Murray Co., Peoples Gas Bldg., Chicago, Ill.

- CRESSLER, Kerr Murray (Junior, 1907), Treas. and Engr., The Kerr Murray Co., 122 S. Michigan Ave., and 914 Margate Terrace, Chicago, Ill.
- CRISSEY, Clarence Philip (1912), Henry R. Worthington, 115 Broadway, and *for mail*, 600 W. 114th St., New York, N. Y.
- CROCKARD, Frank H. (1909), V. P., Tenn. Coal, Iron & R. R. Co., 1524 Brown-Marx Bldg., 2708 Highland Ave., Birmingham, Ala.
- CROCKER, Allen Swift (1905), Supt. Industrial Arts Dept., Mechanics Inst. and Cons. Engr., 55 Plymouth Ave., and 15 Audubon St., Rochester, N. Y.
- CROCKER, Arthur George (Junior, 1911), Engrg. Dept., The Westinghouse Mch. Co., 39 S. La Salle St., and *for mail*, 151 N. Mason Ave., Chicago, Ill.
- CROFOOT, George Emerson (1907; 1913), Instr. Mech. Engrg., Univ. of Pa., and 223 S. Farragut St., Philadelphia, Pa.
- CROGHAN, John T. (Associate, 1909), Constr. Supt., Stone & Webster Engrg. Corp., 147 Milk St., Boston, and *for mail*, Box M, East Bridgewater, Mass.
- CROLL, A. Gilbert (Associate, 1901), Asst. Genl. Supt., The Atlas Portland Cement Co., Supt., Northampton & Bath R. R., Northampton, and *for mail*, 30 S. West St., Allentown, Pa.
- CROMWELL, J. C. (1892; 1900), 1410 New England Bldg., and 1781 E. 89th St., Cleveland, O.
- CRONEMEYER, Henry C. (1912), Efficiency Engr., Jones & Laughlin Steel Co., Woodlawn, Pa.
- CROOK, Geo. Louis (1905), Wks. Mgr., Tractor Wks., M. Rumely Co., and 1227 Michigan Ave., La Porte, Ind.
- CROOKER, Paul Rhodes (Junior, 1912), Asst. Mech. Engr., Beech Nut Packing Co., and *for mail*, 16 Orchard St., Canajoharie, N. Y.
- CROOKER, Ralph (1890), Acton, Mass.
- CROSBY, Edward Harris (1913), Genl. Supt., Veeder Mfg. Co., and *for mail*, 252 Edgewood St., Hartford, Conn.
- CROSBY, Oliver (1911), Managing Partner and Engr., Am. Hoist & Derrick Co., and *for mail*, 63 S. Robert St., St. Paul, Minn.
- CROSBY, William Wyman (1900; 1902), Member of Firm, F. W. Dean, Inc., Engrs., Rm. 1112, 53 State St., Boston, and 8 Old Mystic St., Arlington, Mass.
- CROSS, Charles N. (1911), Asst. Prof. Mech. Engrg., Leland Stanford Jr. Univ., Stanford University P. O., and *for mail*, 340 Embarcadero Rd., Palo Alto, Cal.
- CROSS, Garrett Putnam S. (1913), Designing Draftsman, Genl. Elec. Co., and *for mail*, 111 Nott Terrace, Schenectady, N. Y.
- CROSS, Henry B. (1913), Secy., Genl. Fire Extinguisher Co., 275 W. Exchange St., Providence, R. I.
- CROTHERS, Charles Edward, Jr. (Junior, 1905), Mech. Engr., 1663 Cambridge St., Cambridge, Mass.
- CROUCH, Calvin Henry (1898; 1908), Dean College Mech. and Elec. Engrg., Univ. of N. D., Grand Forks, N. D.
- CROWELL, Henry Walcott (1912), Supt. Inspc. Dept., Globe Indemnity Co., 45 William St., New York, N. Y., and 25 Hillcrest Rd., Glen Ridge, N. J.

- CROWELL, William Jas., Jr. (Junior, 1908), Ch. Chem. and Test Engr., Am. Iron & Steel Mfg. Co., Lebanon, Pa.
- CRUIKSHANK, Dr. Barton (1913), Cons. Engr., 30 Church St., New York, N. Y., and 38 Eaton Pl., East Orange, N. J.
- CRUTE, William Rowzie (Junior, 1910), Asst. M. M., Mathieson Alkali Wks., Saltville, Va.
- CULLEN, James K. (1886), Pres., The Niles Tool Wks., and Franklin and D St., Hamilton, O.
- CULLINGWORTH, Geo. R. (1884), Mech. Engr., Garvin Mch. Co., Spring and Varick Sts., New York, N. Y.
- CUMMINGS, Byron (1910), Supt. Inspc. Dept., Ocean Accident & Guarantee Corp., 59 John St., and *for mail*, 560 W. 180th St., New York, N. Y.
- CUMMINGS, Edgar C. (1906), V. P. and Mgr., The Crawford-Cummings Co., Erie, Pa., and 608 Wellington St., Waterloo, Ia.
- CUMMINGS, Orrie P. (1899), Supt. of Constr., A. B. See Elec. Elev. Co., 220 Broadway, and 48 W. 51st St., New York, N. Y.
- CUMMINGS, Wm. Warren (1905), Cons. and Contr. Engr., Hanover, N. H.
- CUMMINS, Peter Augustine (Junior, 1910), Spec. Apprentice, Shop Practice, Detroit Steel Products Co., and *for mail*, 30 Hazelwood Ave., Detroit, Mich.
- CUMNER, Matthew Smith (1912), Mgr., Nestor Mfg. Co., 40 W. 13th St., and 82 W. 12th St., New York, N. Y.
- CUNNINGHAM, Charles G. (Associate, 1908), Engr., N. Y. C. & H. R. R. Co., Yonkers Power Sta., Yonkers, and *for mail*, 7 Perot St., Kingsbridge, New York, N. Y.
- CUNNINGHAM, George H. (Junior, 1910), Designer Engrg. Dept., Anaconda Copper Min. Co., and *for mail*, Box 501, Anaconda, Mont.
- CUNNINGHAM, Robert Henry, Jr. (Junior, 1907), Engr., Salesman, Ingersoll-Rand Co., 1620 Williamson Bldg., Cleveland, O.
- CUNNINGHAM, Thos. (1899), Wenham, Mass.
- CURLEY, Robert Sylvester (Junior, 1912), Mech. Engr. Kitson Plant, Saco Lowell Co., and *for mail*, 11 Grace St., Lowell, Mass.
- CURRIE, Robert J. (1913), 30 E. 42d St., New York, N. Y.
- CURTIS, Edma H., Jr. (Junior, 1901), Mech. Engr., 1981 Cleneay Ave., Norwood, O.
- CURTIS, Greely S. (1897; 1904), Treas., Burgess Co. & Curtis, Marblehead, and 360 Essex St., Salem, Mass.
- CURTIS, Ralph E. (1888; 1901), Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, and *for mail*, 15 Allen St., West Roxbury, Mass.
- CURTIS, Walter Molbray (1912), Mgr. Engrg. Dept., N. E. Audit Co., and *for mail*, P. O. Box 597, Springfield, Mass.
- CUSHING, Geo. H. (1891), Genl. Supt., H. B. Smith Co., and *for mail*, 37 Broad St., Westfield, Mass.

- CUSHING, Ralph Atherton (1913), Mech. Engr. and Estimator, Easton Mch. Co., South Easton, and *for mail*, 8 Oakdale St., Brockton, Mass.
- CUSHMAN, Arthur Wesley (Junior, 1905), Supt., Parker Webb & Co., Michigan and 20th Sts., Detroit, Mich.
- CUSHMAN, Frank, Jr. (Junior, 1907), Vice-Prin., Manual Training H. S., and 3012 E. 27th St., Kansas City, Mo.
- CUSHMAN, Herbert E. (Associate, 1898), Treas. and Genl. Mgr., Morse Twist Drill & Mch. Co., and 144 Hawthorne St., New Bedford, Mass.
- CUSTER, Levitt Luzern (Junior, 1913), Test Dept., The Natl. Cash Register Co., and *for mail*, 23 N. Wilkinson St., Dayton, O.
- CUTLER, Arthur E. (1910), Mech. Engr., Ashton Valve Co., 271 Franklin St., Boston, and *for mail*, 17 Chetwynd Rd., Tufts College, Mass.
- CUTTER, George Albert (1896; 1904), Genl. Mgr., Cell Drier Mch. Co., and 144 Dighton Ave., Taunton, Mass.
- CYPHER, Orren Gilbert (1913), Mech. Engr., Matthiessen & Hegeler Zinc Co., and *for mail*, 553 11th St., La Salle, Ill.
- DAGGETT, Herbert Chapin (1907), Mgr., N. E. Branch Office, S. Morgan Smith Co., 176 Federal St., Boston, Mass.
- DAHLSTRAND, Hans (1910), Mech. Engr. Steam Turbine Engrg. Dept., Allis-Chalmers Mfg. Co., Milwaukee, Wis.
- DALE, Orton G. (1894; 1909), Mgr., Mead-Morrison Mfg. Co., 149 Broadway, New York, N. Y., and Plainfield, N. J.
- DALLETT, Elijah (1900), Mech. Engr., Midvale Steel Co., and *for mail*, Chestnut Hill, Philadelphia, Pa.
- DALLETT, W. P. (1888), Life Member; Hyd. Engr. and Contr., 49 N. 7th St., Philadelphia, and Media, Pa.
- DALLIS, Park Andrew (1911), Mill Arch. and Engr., Park A. Dallis Co., 913 Candler Bldg., and 319 Grand Opera House Bldg., Atlanta, Ga.
- DALLY, John Horton (1903), Ch. Engr., N. Y. Stock Exch., 10 Broad St., New York, N. Y., and 77 Glenwood Ave., East Orange, N. J.
- DALTON, William (1902), Ch. Engr., Am. Loco. Co., and R. F. D. 2, Schenectady, N. Y.
- DAM, William Valdemar (1906), Genl. Mgr., Thompson & Co., and *for mail*, "Kalimna," Hall St., Castlemaine, Victoria, Australia.
- DAMON, John H. (1908; 1910), M. M., Plymouth Cordage Co., North Plymouth, and 258 Court St., Plymouth, Mass.
- DAMON, Walter Henry (1909), Supt. of Generating, United Elec. Light Co., 32 Bancroft St., Springfield, Mass.
- DANFORTH, N. Loring (Junior, 1903), Pres., John W. Danforth Co., 70-72 Ellicott St., Buffalo, N. Y.
- DANFORTH, Raymond Hewes (1912), Asst. to Head Postgraduate Dept., In Charge Steam Engrg. Wk., U. S. Naval Acad., and *for mail*, 6 Martin St., Annapolis, Md.
- DANIEL, Thomas Lester (Associate-Member, 1913), Shop Organizer, Diamond Iron Wks., Minneapolis, and *for mail*, Robbinsdale, Minn.

- DANKS, Alfred C. (Junior, 1907), Gas Engr., Ch. Engr., Elec. Power Sta., Edgar Thomson Wks., Carnegie Steel Co., Braddock, and *for mail*, 331 West St., Wilkinsburg Sta., Pittsburgh, Pa.
- DANNER, Emil C. (Junior, 1912), Asst. Engr., Heppenstall Forge & Knife Co., and *for mail*, 241 McKee Pl., Pittsburgh, Pa.
- DARBEE, William (1900; 1912), Elec. Bond & Share Co., 71 Broadway, New York, N. Y.
- DARBY, John (1907), Cons. and Designing Engr., 7 E. 42d St., New York, N. Y., and *for mail*, 111 Summit Ave., Summit, N. J.
- DARBY, John Henry (1901), 155 Norfolk St., Sheffield, England.
- DARLING, Albert Willis (1913), Mech. Engr., Graton & Knight Mfg. Co., 356 Franklin St., Worcester, Mass.
- DARLING, Philip G. (1906; 1912), Ch. Engr. Exper. Sta., E. I. du Pont de Nemours Powder Co., and 1712 Washington St., Wilmington, Del.
- DARLINGTON, Philip J. (1904), Pres., The Roto Co., and 235 Sisson Ave., Hartford, Conn.
- DARLOW, A. M. (Junior, 1912), Supt. M. P., Buffalo & Susquehanna R. R., Galeton, Pa.
- DARRIN, David H. (1892; 1900), Pres., Automatic Switch Co., 131 Liberty St., and 310 Convent Ave., New York, N. Y.
- DART, William Crary (Associate, 1907), Pres., R. I. Tool Co., and 16 Stimson Ave., Providence, R. I.
- DASHIELL, W. W. (1890), Pres. and Genl. Mgr., N. Y. Lubricating Oil Co., V. P., Bayway Refining Co., 116 Broad St., and 848 St. Nicholas Ave., New York, N. Y.
- DASSO, David (Junior, 1912), Mech. Engr., A. Bertello & Co., Bellavista, and *for mail*, Apartado 1171, Lima, Peru, S. A.
- DAUCHY, Samuel E. (Junior, 1903), Industrial Engr. with F. A. Waldron, 37 Wall St., New York, N. Y., and *for mail*, Box 305, Westfield, N. J.
- DAUGHERTY, Frank (Junior, 1909), V. P., Scofield Engrg. Co., 1324 Arcade Bldg., and *for mail*, 2109 Chestnut St., Philadelphia, Pa.
- DAUGHERTY, Samuel Bovard (1905), Ch. Engr., Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 129 Claremont Ave., Buffalo, N. Y.
- DAVENPORT, Wm. S. (1913), Treas., Davenport Mch. Tool Co., 90 S. Sixth St., and *for mail*, 124 Cottage St., New Bedford, Mass.
- DAVEY, Warren (Junior, 1899), Ch. Engr., Colgate & Co., 105 Hudson St., and 123 Sip Ave., Jersey City, N. J.
- DAVID, William Herbert (Associate-Member, 1913), Mech. Draftsman, S. S. White Dental Mfg. Co., Prince Bay, S. I., and *for mail*, 175 Fisher Ave., Tottenville, N. Y.
- DAVIDSON, Archer (Associate, 1907), Dist. Engr., Westinghouse Mch. Co., 1326 Candler Bldg., Atlanta, Ga.
- DAVIDSON, Charles Jackson (1904), Manager, 1911-1914; Member of Firm, Woodmansee & Davidson, 1048 First Natl. Bank Bldg., Chicago, Ill.

- DAVIDSON, J. Brownlee (1905; 1912), Prof. Agri. Engrg., Ia. State College, and 719 Fifth St., Ames, Ia.
- DAVIDSON, Marshall T. (1886), Pres., M. T. Davidson Co., 43-53 Keap St., and 108 St. James Pl., Brooklyn, N. Y.
- DAVIDSON, Morgan W. (1912), Prof. Mech. Engrg., Univ. of S. D., Vermillion, S. D.
- DAVIS, A. C. (1909), V. P. and Mgr., Am. Mfg. Concern, Jamestown, and Main and Homestead Sts., Falconer, N. Y.
- DAVIS, Albion Richmond (Junior, 1913), Ch. Draftsman, Gray & Davis, Inc., Boston, and *for mail*, 9 Gardner Terrace, Allston, Mass.
- DAVIS, Charles Ethan (1886), Cons. Engr., Box 133, Engineers' Club, 32 W. 40th St., and 49 W. 39th St., New York, N. Y.
- DAVIS, Charles Henry (1890), 18 Old Slip, New York, N. Y., and *for mail*, South Yarmouth, Mass.
- DAVIS, Edwin Halsted (Junior, 1907), Engr., Whitehead & Hoag Co., Newark, and *for mail*, 373 Park Ave., East Orange, N. J.
- DAVIS, Francis Perry (Junior, 1913), Am. Tel. & Tel. Co., 15 Dey St., and *for mail*, 7 E. 128th St., New York, N. Y.
- DAVIS, George H. (Junior, 1907), Secy., J. J. Kenyon Mfg. Co., and 18 Kossuth St., Pawtucket, R. I.
- DAVIS, George Henry (1913), Member of Firm, Ford, Bacon & Davis of 115 Broadway, New York, N. Y., 921 Canal St., and 2134 Napoleon Ave., New Orleans, La.
- DAVIS, Herbert R. (Junior, 1901), Ch. Engr., Hope Engrg. & Supply Co., 822-826 Farmers Bank Bldg., and 2049 Murray Ave., Pittsburgh, Pa.
- DAVIS, Herman Haupt (1913), Mgr. Boston Office, Fuller Bros. & Co., 24 Milk St., and *for mail*, Technology Chambers, 8 Irvington St., Boston, Mass.
- DAVIS, John Francis (Junior, 1912), Asst. Supt., Bryant Paper Co., and *for mail*, P. O. Box 768, Kalamazoo, Mich.
- DAVIS, Joseph P. (1880), 332 Palisade Ave., Yonkers, N. Y.
- DAVIS, Leon Keith (1911), Mgr., Columbia Inspec. Bureau, 425 Walnut St., and Covington Hotel, Chestnut and 37th Sts., Philadelphia, Pa.
- DAVIS, Lewis K. (1892), Cons. Engr., 15 E. 40th St., New York, N. Y.
- DAVIS, Robt. G. (1900; 1902), Supt. Ins. Bldg., German Am. Ins. Co., 19 W. Main St., and 222 Plymouth Ave., Rochester, N. Y.
- DAVIS, Roswell (Junior, 1912), Supt. Grounds and Bldgs., Princeton Univ., and 37 Bank St., Princeton, N. J.
- DAVIS, William J., Jr. (1910), Pacific Coast Engr., Genl. Elec. Co., 720 Rialto Bldg., San Francisco, Cal.
- DAVISON, Clarence M. (Junior, 1909), Mech. Engr., Alberger Pump & Condenser Co., Wks. Office, and *for mail*, 25 Bayview Terrace, Newburgh, N. Y.
- DAVISON, Gregory C. (1913), V. P., Elec. Boat Co., Groton, Conn.
- DAVOCK, Harlow N. (Junior, 1910), Mgr. Davock Bldg. Co., 1519 Woodward Ave., and *for mail*, 230 Blaine Ave., Detroit, Mich.

- DAVOL, George K. (1904), Mech. Engr., 503 Market St., San Francisco, Cal.
- DAVOUD, Vahram Y. (1906; 1909; 1913), Elec. and Mech. Engr., Utah Power & Light Co., Salt Lake City, Utah.
- DAWES, Herbert N. (1902), V. P., Nightingale & Childs Co., Pres., Cerro Gordo Fruit Co., V. P., Putnam-Morrill Co., 205 Congress St., Boston, and 100 Orange St., Chelsea, Mass.
- DAWES, Robert (1890; 1896), V. P. and Supt., Haskell, Dawes Mch. Co., Erie and Trenton Aves., Philadelphia, and 5014 Penn St., Frankford, Philadelphia, Pa.
- DAWLEY, Clarence A. (1904; 1912), Cons. Engr., 90 West St., New York, N. Y.
- DAY, Charles (1902; 1912), Member of Firm, Day & Zimmermann, 611 Chestnut St., Philadelphia, and 5021 Schuyler Ave., Germantown, Philadelphia, Pa.
- DAY, Charles Harold (1913), Engr., The Grasselli Chem. Co., Cleveland, and *for mail*, 79 Belmore Rd., East Cleveland, O.
- DAY, Charles Iven (Junior, 1910), Genl. Supt., So. Utilities Co., 916 Heard Bldg., Jacksonville, Fla.
- DAY, George H. (1912), Asst. Supt., Am. Optical Co., and *for mail*, 52 Chapin St., Southbridge, Mass.
- DAY, Irvin W. (Junior, 1908), 100 Broadway, and 119 W. 71st St., New York, N. Y.
- DAY, Leonard A. (1909), Ch. Mech. Engr., St. Louis Water Dept., 34 E. Grand Ave., and *for mail*, 4015a Greer Ave., St. Louis, Mo.
- DAY, Paul (1909), Treas., Federal Lumber Co., 920-921 Rogers Bldg., Vancouver, and Kerrisdale, B. C., Canada.
- DAY, Percy Crundall (1913), Engr. and Mgr. Helical Gear Dept., The Falk Co., and *for mail*, 770 Maryland Ave., Milwaukee, Wis.
- DEACON, Ralph Woolman (Associate, 1907), Metallurgical Supt., British America Nickel Corp., Ltd., Nickelton, and *for mail*, Box 707, Sudbury, Ont., Canada.
- DEAN, Ambrose Burnside (1913), E. Keeler Co., 50 Church St., New York, N. Y., and 277 Lafayette Ave., Passaic, N. J.
- DEAN, Arthur M. (1907; 1913), Palmer & Singer Mfg. Co., 2d and Webster Aves., Long Island City, and *for mail*, 16 Cypress Ave., Flushing, L. I., N. Y.
- DEAN, Dion Kanouse (Junior, 1912), Dist. Sales Mgr., Alberger Pump & Condenser Co., 88 Broad St., Boston, and 85 Faun Bar Ave., Winthrop, Mass.
- DEAN, Edmund Willard (1905), Ch. Draftsman, Duplex Ptg. Press Co., and 67 Calhoun St., Battle Creek, Mich.
- DEAN, Francis W. (1883), Vice-President, 1895-1897; Mill Engr. and Arch., Exch. Bldg., 53 State St., Boston, Mass.
- DEARBORN, Wm. Langdon (Junior, 1913), Res. Engr., Barclay, Parsons & Klapp, Port of Havana Docks Co., Apartado 1289, Havana, Cuba.
- DEATS, William (1913), Factory Supt. and Member of Firm, The Edgar O. Clark Co., New York, and *for mail*, 34 Carrol St., Yonkers, N. Y.

- DE BAUFRE, Wm. L. (1909; 1913), Mech. Engr., U. S. Naval Engrg. Exper. Sta., and *for mail*, 101 Market St., Annapolis, Md.
- de CAZENOVE, Louis A., Jr. (1905; 1911), Mech. Engr. Engrg. Dept., E. I. du Pont de Nemours Powder Co., and *for mail*, The Wilmington, Delaware Ave., Wilmington, Del.
- DECKER, Edward P. (1906), Pres., E. P. Decker & Co., 80 Griswold St., and 79 Pingree Ave., Detroit, Mich.
- DECKER, James Henry (Associate, 1913), Designer, Isthmian Canal Com., Office of Div. Engr., Atlantic Div., Gatun, Canal Zone.
- DEEDS, Edward Andrew (Associate, 1900), V. P., Natl. Cash Register Co., and Pres., The Dayton Engrg. Laboratories Co., and *for mail*, Moraine Farm, Dayton, O.
- DEILY, Arthur Texter (Junior, 1913), Erecting Shop, Power Dept., Bethlehem Steel Co., South Bethlehem, and *for mail*, P. O. Box 217, Perkasié, Pa.
- De LAMATER, Oakley R. (1902), Supt., L. P. C. Motor Co., Racine, Wis., and Englewood, N. J.
- DeLAMATER, Van Ness (1913), Dept. of Power Plants, Valves and Steam Goods, Canadian Fairbanks-Morse Co., Winnipeg, Man., Canada.
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- De LANY, George Samuel (1912), Genl. Mgr., Rivett Lathe & Grinder Co., Brighton, Boston, and 59 Corinne Rd., Faneuil, Mass.
- de LAVAL, Carl Geo. (1886), Genl Mgr., Henry R. Worthington Hyd. Wks., Harrison, and *for mail*, 136 Highland Ave., Orange, N. J.
- DE LEEUW, Adolph L. (1901), Mech. Engr., Cincinnati Milling Mch. Co., Cincinnati, and *for mail*, 308 McGregor Ave., Mt. Auburn, Cincinnati, O.
- DEMING, Wm. H. (1897), Mech. Engr., Continental Iron Wks., and 531 Eastern Parkway, Brooklyn, N. Y.
- DENMAN, Burt J. (1913), Asst. Genl. Mgr., United Light & Rys. Co., 125-127 W. 3d St., and 2321 Rock Island St., Davenport, Ia.
- DENNIS, Basil Wrenn (Junior, 1911), Engr., E. W. Clark & Co., Management Corp., 910 Wyandotte Bldg., and 1312 E. Long St., Columbus, O.
- DENNISON, Wilburn Norris (1905), Ch. Engr. and Genl. Supt., The Gramophone Co., Ltd., English and Continental Wks., Hayes, Middlesex, England.
- DENSMORE, Edward D. (Associate, 1898), Engr. and Arch., Densmore & LeClear, 88 Broad St., Boston, and 26 Downing Rd., Brookline, Mass.
- DENT, John Adlum (Junior, 1911), Assoc. Mech. Engrg., Univ. of Ill., 307 Engrg. Hall and 1104 W. Illinois St., Urbana, Ill.

- DENTON, James E. (1881), Manager, 1889-1892; Emeritus Prof. Engrg. Practice, Stevens Inst. of Tech., Hoboken, and 36 Ridgewood Rd., Maplewood, N. J.
- De PUY, C. E. (1891; 1903), Prof. Mch. Constr., Lewis Inst., Chicago, and *for mail*, 411 N. Elmwood Ave., Oak Park, Ill.
- DeREMÉR, Jay Grant (1913), Ch. Engr., United Light & Power Co., 57 Post St., San Francisco, Cal.
- de SCHWEINITZ, P. B. (1880), Prof. Mch. Design, Lehigh Univ., South Bethlehem, and *for mail*, 313 Church St., Bethlehem, Pa.
- DETRICK, Jacob S. (1892), Pres., Detrick & Harvey Mch. Co., 508 E. Preston St., and 205 E. Preston St., Baltimore, Md.
- De VED, Horace W. (Junior, 1908), Engr., N. Y. & Queens Elec. Light & Power Co., 444 Jackson Ave., Long Island City, and 103 Whitestone Ave., Flushing, L. I., N. Y.
- DEVENS, Richard (1913), Mgr. East. Office, Brown Hoisting Mch. Co., 50 Church St., New York, N. Y.
- DEVERELL, Harry (1911), Treas., Macdonald Engrg. Co., 551 Monadnock Bldg., and *for mail*, 6141 Kimbark Ave., Chicago, Ill.
- DeWOLF, John O. (1901), Mech. and Mill Engr., 19 Milk St., Boston, and 5 Edgehill Rd., Winchester, Mass.
- DeWOLFE, Edward Charles (1899; Associate, 1906), Member of Firm, Russell-DeWolfe Co., 537 S. Dearborn St., and 3805 Grand Blvd., Chicago, Ill.
- DEWSON, Edward Henry (1889; 1898), Res. Engr., Westinghouse Brake Cos., 165 Broadway, and 622 W. 114th St., New York, N. Y.
- DICKERMAN, Albert Cornell (1911), Mech. Engr., R. I. Supply & Eng. Co., 166 W. Exchange St., and *for mail*, 2 Providence St., Providence, R. I.
- DICKERMAN, Wm. Carter (1899; 1907), V. P., Am. Car & Fdy. Co., 165 Broadway, New York, N. Y.
- DICKERSON, H. S. (1912), Asst. Prof. Mech. Engrg., Purdue Univ., Lafayette, and *for mail*, 329 Russell St., West Lafayette, Ind.
- DICKIE, George W. (1892), Manager, 1895-1898; 24 California St., San Francisco, Cal.
- DICKINSON, Edgar Drury (1913), Asst. Engr. Steam Turbines, Genl. Elec. Co., Schenectady, N. Y.
- DICKINSON, William Noble (1906), Mgr. Foreign Dept., Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St., New York, and 38 De Koven Court, Brooklyn, N. Y.
- DIEDERICH, Herman (1904; 1913), Prof. Exper. Engrg., Sibley College, Cornell Univ., Ithaca, N. Y.
- DIEFENDORF, Willis H. (1904), Ch. Engr., New Process Gear Corp., and *for mail*, 115 Baker Ave., Syracuse, N. Y.
- DIEMER, Hugo (1904), Prof. Industrial Engrg., Pa. State College, and Cons. Industrial Engr., State College, Pa.
- DIEPENBROCK, Joseph F. (1912), Ch. Engr., Henry R. Worthington Hyd. Wks., Harrison, and *for mail*, 25 Kingsley St., West Orange, N. J.

- DIETZ, Carl F. (1903; 1910), Advisory Engr. and Asst. Sales Mgr., Norton Co., and *for mail*, 8 Westland St., Worcester, Mass.
- DILL, Thomas Clark (1913), Pres. and Genl. Mgr., T. C. Dill Mch. Co., Inc., Somerset, Mascher and Mutter Sts., and 2834 N. 6th St., Philadelphia, Pa.
- DILLARD, Capt. James B. (1907; Associate, 1909), Insp. of Ordnance, U. S. A., care of Newport News Shipbuilding & Dry Dock Co., Newport News, Va.
- DILLMAN, Oscar David (Junior, 1913), Asst. Chicago Mgr., Hooven, Owens, Rentschler Co., 1127 Marquette Bldg., Chicago, Ill.
- DILLON, Edward L. (1909), Mech. Engr., Fairbanks, Morse & Co., 1330a Clara Ave., St. Louis, Mo.
- DILLON, Frederick N. (1902), Treas., D. M. Dillon Steam Boiler Wks., and 16 Prospect St., Fitchburg, Mass.
- DILLON, Robert Emmet (Junior, 1912), Tech. Engr., Edison Elec. Ill. Co. of Boston, 39 Boylston St., and *for mail*, Suite 2, 7 Blackwood St., Boston, Mass.
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- DIMAN, Walter G. (1909), Supt. of Power, Amoskeag Mfg. Co., and 635 Maple St., Manchester, N. H.
- DINGEE, W. W. (1886), Ret. Mech. Engr., 5811 Dorchester Ave., Chicago, Ill.
- DINKEL, Geo. (1890; 1897), Cons. Engr., Am. Sugar Refining Co., 117 Wall St., New York, N. Y., and *for mail*, 35 Highland Ave., Jersey City, N. J.
- DINKEY, A. C. (1902), Pres., Carnegie Steel Co., Carnegie Bldg., and Ellsworth and Amberson Aves., Pittsburgh, Pa.
- DIRKS, Henry B. (Junior, 1907), 2459 Montrose Ave., Chicago, Ill.
- DISERENS, Paul (Junior, 1908), Engr. of Tests, Laidlaw-Dunn-Gordon Co., Cincinnati, and *for mail*, Wilhelm Apt., Avondale, Cincinnati, O.
- DIXON, Charles Francis (1903; 1911), Engr., N. E. Engrg. Co., Waterbury, Conn., and *for mail*, 1424 E. 14th St., Brooklyn, N. Y.
- DIXON, Robert M. (1884), Pres., Safety Car Htg. & Ltg. Co., 2 Rector St., New York, N. Y., and 21 Walnut St., East Orange, N. J.
- DIXON, Walter Frank (1889; 1894), Mgr., Singer Mfg. Co.'s Wks., Podolsk, Moscow Govt., Russia.
- DOANE, John Appleton (1910), Mech. Engr., Prescott Auto Parts Co., and *for mail*, Thompson Rd., Webster, Mass.
- DOANE, Dr. W. H. (1885), Watch Hill, R. I., and *for mail*, care of J. B. Colgate & Co., 36 Wall St., New York, N. Y.
- DOBLE, William A. (1891), Ch. Engr., The Pelton Water Wheel Co., 19th and Harrison Sts., and 2611 Broadway, San Francisco, Cal.
- DOBSON, Frank (1906), 319-321 E. 53d St., New York, N. Y.

- DOBSON, W. J. M. (1881), Cons. Mech. Engr., 398 Adelphi St., Brooklyn, N. Y.
- DOCK, Herman (1889), Mech. Engr., U. S. Motor Co., Westerly, R. I.
- DODDS, William B. (Junior, 1907), Chem. and Asst. Gas Engr., Mass. Ltg. Cos., 77 Franklin St., Boston, and *for mail*, 402 Massachusetts Ave., Arlington, Mass.
- DODDS, Wm. E. (1891), Genl. Mgr., Stand. Cast Iron Pipe & Fdy. Co., Bristol, Pa.
- DODGE, Albert (1913), Member of Firm, Shore & Dodge, Archs. and Engrs., 608 Chestnut St., and Normandie Hotel, Philadelphia, Pa.
- DODGE, Albert Cole (1908), Genl. Supt., West. Elec. Co., Norwalk House, Victoria Embankment, London, England.
- DODGE, Austin R. (1907), Engr., Genl. Elec. Co., Schenectady, N. Y.
- DODGE, James Mapes (1884), Manager, 1891-1894; Vice-President, 1900-1902; President, 1903; Chairman of Bd., Link-Belt Co., Nicetown, Philadelphia, and McKean Ave., Germantown, Philadelphia, Pa.
- DODGE, Kern (1902; 1912), Cons. Engr., Morris Bldg., 1421 Chestnut St., Philadelphia, and 5135 Pulaski Ave., Germantown, Philadelphia, Pa.
- DOELLING, Louis Karl (1906), Pres. and Genl. Mgr., De La Vergne Mch. Co., foot E. 138th St., New York, and 26 Colonial Pl., New Rochelle, N. Y.
- DOHERTY, Henry L. (1903), Pres., Denver Gas & Elec. Co., 60 Wall St., New York, N. Y.
- D'OLIER, William Livingston (1911), Pres., D'Olier Centrifugal Pump & Mch. Co., 503 Morris Bldg., and 1533 Girard Ave., Philadelphia, Pa.
- DOLLAR, William M. (1896; 1903), Cons. Engr., Bierbaum-Dollar, Inc., 929-935 Marine Bank Bldg., Buffalo, and Springbrook, N. Y.
- DOMBROWSKY, Walter Ferdinand (Junior, 1913), Testing Engr. Proposition Dept., The Babcock & Wilcox Co., Bayonne, and *for mail*, 117 Littleton Ave., Newark, N. J.
- DOMONOSKE, Arthur B. (Junior, 1912), Instr. Mch. Design, Univ. of Ill., 307 Engineering Hall, and 1010½ W. California St., Urbana, Ill.
- DONALDSON, Harold R. (Junior, 1913), Draftsman, 115 Wall St., New Haven, Conn., and 250 Richmond Ave., Buffalo, N. Y.
- DONALDSON, Stuart A. (Junior, 1909), 106 Donaldson Ave., Rutherford, N. J.
- DONNELLY, James A. (1911), Cons. Htg. and Vent. Engr., Pres., Positive Differential System Co., 132 Nassau St., New York, N. Y.
- DONNELLY, William T. (1903), Cons. Engr., 17 Battery Pl., New York, N. Y.
- DONOVAN, William J. (Associate-Member, 1913), Supt. and Ch. Engr., Hotel Manhattan, 17 E. 42d St., New York, N. Y.

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- DOOLITTLE, Warren P. (Junior, 1912), Designing Engr., The Waterbury Mfg. Co., Waterbury, and *for mail*, 130 S. Main St., Naugatuck, Conn.
- DORER, Oscar H. (Junior, 1912), Testing Dept., Henry R. Worthington Hyd. Wks., Harrison, and *for mail*, 812 Stuyvesant Ave., Irvington, N. J.
- DORMAN, Neal Wadsworth (Junior, 1913), Mch. Designer, The Toledo Mch. & Tool Co., and *for mail*, 2467 Auburn Ave., Toledo, O.
- DORNBIRER, James G. (1913), Genl. Mgr., Cleveland Planer Wks., Cleveland, O.
- D'ORNELLAS, T. V. (Associate, 1907), Cons. Elec. Engr., Peruvian Govt., Calle de Lima 15, Chorrillos, Peru, S. A.
- DORNER, Frederick Harry (1907; 1911), Mech. Engr., 716 Prospect Ave., Milwaukee, Wis.
- DORWARD, David, Jr. (1910), Mgr. Marine Dept., Genl. Petroleum Co., 343 Sansome St., San Francisco, and 803 Santa Clara Ave., Alameda, Cal.
- DOTY, Paul (1891; 1904), V. P. and Genl. Mgr., St. Paul Gas Light Co., and 286 Laurel Ave., St. Paul, Minn.
- DOUGHTY, A. J. (1902), 45 Virginia Park, Detroit, Mich.
- DOUGHTY, George A. (Associate, 1903), Secy., Logan Iron Wks., 52 Commercial St., and *for mail*, 1161 Dean St., Brooklyn, N. Y.
- DOUGHTY, Wm. F. (Junior, 1899), Mech. Engr., 17 Beach St., Flushing, L. I., N. Y.
- DOUGLAS, Courtney Carlos (1904; 1908; 1913), Dist. Mgr. Turbine Sales, Genl. Elec. Co., 1023 Monadnock Bldg., Chicago, and 159 N. Ridgeland Ave., Oak Park, Ill.
- DOUGLAS, Edwin Rust (1912), Cons. Engr., Philadelphia, and *for mail*, 13 Oakdale Ave., Glenside, Pa.
- DOUGLAS, Morris Duncan (Junior, 1913), Mech. Engr. Exper. Dept., The Pa. Steel Co., Steelton, and *for mail*, 9 N. Front St., Harrisburg, Pa.
- DOUGLAS, Walter Cooley (Junior, 1911), Secy., Topping Bros., Inc., 122 Chambers St., New York, N. Y., and *for mail*, Maple Drive, Greenwich, Conn.
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- DOW, Charles E. W. (1911), 7 Standish St., Dorchester, Mass.
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- DOWD, Wyllys E., Jr. (1911), 111 Broadway, New York, N. Y.

- DOWNE, Henry S. (1886), Dir., Compagnie Nationale des Radiateurs, 149 Blvd. Haussmann, and 22 Ave. Raphaël, Paris, France.
- DOWNES, Nate W. (Junior, 1911), Mech. Engr., Bd. of Dirs., Kansas City Sch. Dist., 517 Finance Bldg., and 4340 Campbell St., Kansas City, Mo.
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- DOYING, William Albert E. (1907), Inspec. Engr., Isthmian Canal Com., Mills Bldg. Annex, and 3525 14th St., N. W., Washington, D. C.
- DRAVO, Geo. P. (1899; 1906), Pres., Power Improvement Co., 510 Enterprise Bldg., and Sta. E., Box 331, R. N. 8, Milwaukee, Wis.
- DREFFEIN, Henry A. (1913), Pres., Flinn & Dreffein Co., 1403 Manhattan Bldg., Chicago, and 217 S. Lombard Ave., Oak Park, Ill.
- DREW, Wilbert Shepard (1911), Supvr. of Industrial Wk., Olean High Sch., and *for mail*, 129 S. 8th St., Olean, N. Y.
- DREWETT, William A. (1888), 180 Quincy St., Brooklyn, N. Y.
- DREYER, Charles Frederick (Junior, 1912), Dept. Mech. Engrg., Escola de Engenharia de Porto Alegre, Brazil, S. A.
- DREYFUS, Edwin D. (1905; 1911), West Penn Traction & Water Power Co., First Natl. Bank Bldg., Pittsburgh, and 116 Linden Ave., Edgewood Park, Swissvale Sta., Pa.
- DRIVER, Arthur (Junior, 1913), Packard Motor Car Co., and *for mail*, 227 Seward Ave., Detroit, Mich.
- DU BARRY, Ed. G. (Junior, 1910), Draftsman, Wabash Pittsburgh Terminal Ry. Co., Rook, and *for mail*, 5321 Penn Ave., Pittsburgh, Pa.
- DU BOIS, A. Jay (1881), Life Member; Prof. Civ. Engrg., S. S. S., Yale Univ., New Haven, Conn.
- DU BOSQUE, F. L. (1892), Pa. R. R., Pa. Sta., New York, N. Y.
- DU BRUL, Ernest F. (Associate, 1900), Pres., Pyro Clay Products Co., 507 E. Pearl St., and cor. Beecher and Melrose Ave., Cincinnati, O.
- DU BRUL, Napoleon (1900), Pres., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St., and Colerain Ave., Sta. A., Cincinnati, O.
- DUCAS, Charles (Junior, 1903), Cons. Engr., Jacobs-Shupert U. S. Firebox Co., Rm. 321, 30 Church St., and 427 Fort Washington Ave., New York, N. Y.
- DuCOMB, William Crawford, Jr. (1913), Engr., Royersford Fdy. & Mch. Co., 52 N. 5th St., Philadelphia, Pa.
- DUCOMMUN, Edwd. (1898; 1903), Asst. Ch. Engr., Am. Sugar Refining Co., and *for mail*, 179 Harrison Ave., Jersey City, N. J.
- DUDEN, Emil G. (Junior, 1907), Ch. Engr., W. B. Scaife & Sons Co., Oakmont, Pa.
- DUERNER, Henry L., Jr. (1901), Mech. Engr., 84 Fremont St., Battle Creek, Mich.
- DUGAN, Claude M., Jr. (1913), Cons. Engr., Dugan Engrg. Co., Equitable Bldg., Louisville, Ky.

- DULL, Raymond W. (1908), Pres., The Raymond W. Dull Co., 718 Chamber of Commerce Bldg., Chicago, and *for mail*, 133 S. 6th Ave., La Grange, Ill.
- DuMOULIN, Walter Louis (1911; Associate-Member, 1913), Supt., Morenci Water Co., Morenci, Ariz.
- DUNBAR, James Horace (1907), Mech. Engr., Grasselli Chem. Co., Cleveland, and 1104 Forest Rd., Lakewood, O.
- DUNBAR, William Otis (1904), Asst. Engr. Test Dept., Pa. R. R., and 1216 13th St., Altoona, Pa.
- DUNCAN, Albert Greene (1909), Treas., Chicopee Mfg. Co., Treas., Harmony Mills, and *for mail*, P. O. Box 2966, Boston, Mass.
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- DUNCAN, Lindsay (1912), Mech. Engr., Steptoe Valley Smelting & Min. Co., McGill, Nev.
- DUNCAN, William Millen (1911), V. P., Ill. Stoker Co., Genl. Mgr., Duncan Fdy. Co., Secy. and Treas., Am. Coal Washing Co., Alton, Ill.
- DUNCOMBE, Frederic H. (Junior, 1909), Sales Engr., Power & Min. Mch. Co., 115 Broadway, New York, and 425 S. Columbus Ave., Mt. Vernon, N. Y.
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- DUNLAP, George W. (1911), Supt. of Equip., Internatl. Ry. Co., and 15 Manchester Pl., Buffalo, N. Y.
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- DUNN, Edward Lee (1913), Ch. Engr., Stand. Plunger Elev. Co., and *for mail*, 21 Catalpa St., Worcester, Mass.
- DUNN, Gano (1911), Life Member; Pres., J. G. White Engrg. Corp., 43 Exch. Pl., and *for mail*, 117 W. 58th St., New York, N. Y.
- DUNN, Kingsley G. (Associate, 1907), V. P., Hunt, Mirk & Co., Inc., 141 Second St., San Francisco, Cal.
- DUNN, William Robert (1910), Wks. Mgr., Vulcanite Portland Cement Co., Easton, Pa., and *for mail*, Phillipsburg, N. J.
- du PONT Coleman (1906), Pres., E. I. du Pont de Nemours Powder Co., 964 du Pont Bldg., and 808 Broome St., Wilmington, Del.
- Du PRIEST, John Randolph (1911), Univ. of Wis., Madison, Wis.
- DURAND, Nelson C. (1889), Third V. P., Thomas A. Edison, Inc., Orange, and 380 Roseville Ave., Newark, N. J.
- DURAND, Wm. F. (1883), Vice-President, 1911-1913; Prof. Mech. Engrg., Leland Stanford Jr. Univ., Stanford University P. O., Cal.
- DURANT, Aldrich (1906; 1913), Res. Engr., MacArthur Perks & Co., Ltd., San Francisco Pier, and Genios 23, Havana, Cuba.

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- DWYER, Emmet (Junior, 1907), Asst. Supt., Mich. Stove Co., and 679 Jefferson Ave., Detroit, Mich.
- DYE, Ira Willard (Associate-Member, 1913), Genl. Foreman Transmission Line, Isthmian Canal Com., Culebra, Canal Zone.
- DYER, Frank L. (Associate, 1901), Pres., Genl. Film Co., 200 Fifth Ave., New York, N. Y., and Head of Parkhurst Pl., Montclair, N. J.
- DYER, Robert A., Jr. (1908), Asst. Genl. Mgr., Rochester, Syracuse & East. R. R. Co., and *for mail*, 2 Sheridan St., Auburn, N. Y.
- DYER, Robert M. (1892; 1904), V. P. and Treas., Puget Sound Bridge & Dredging Co., 432-441 Central Bldg., and 3002 Cascadia Ave., Seattle, Wash.
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- DYSON, Eugene Ernest (Junior, 1913), Draftsman, United Shoe Mchy. Co., and *for mail*, 21 Green St., Beverly, Mass.
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- EARLE, Edgar P. (1889; 1905), Pres., Earle Gear & Mch. Co., Stenton and Wyoming Aves., Wayne Junction, Philadelphia, and *for mail*, 23d St., near Graver's Lane, Chestnut Hill, Philadelphia, Pa.
- EARLE, Samuel Broadus (1905; Associate, 1908), Dir. Engrg. Dept., Prof. Mech. Engrg., Clemson College, Clemson College, S. C.
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- EATON, Charles Edwin (1905), Eaton & Brownell, 70 Smith Bldg., and 1157 State St., Watertown, N. Y.
- EATON, Henry Chas. (Associate, 1908), Asst. Supt., Waltham Watch Co., and 62 Lyman St., Waltham, Mass.
- EATON, Russell Wm. (1894), Agt., Cabot Mfg. Co., and 17 Federal St., Brunswick, Me.
- EAYRS, Thomas C. (Junior, 1905), Mgr. Ry. and Ltg. Dept., Westinghouse Elec. & Mfg. Co., 27 Woodward Ave., and 311 Montclair Ave., Detroit, Mich.
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- EDDISON, W. Barton (Junior, 1913), Asst. Instr. Mech. Engrg. Dept., Columbia Univ., New York, and *for mail*, Irvington, N. Y.
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- EILERS, Karl (1890; 1904), Am. Smelting & Refining Co., 165 Broadway, and *for mail*, 435 Riverside Drive, New York, N. Y.
- EILERSGAARD, Asger (1913), Engr. Loco. Crane Dept., Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill.
- EINIG, Alvin Bart (Junior, 1912), The Motch & Merryweather Mch. Co., and *for mail*, 2278 E. 87th St., Cleveland, O.
- EINSTEIN, Alfred Charles (Associate, 1905), V. P. and Genl. Mgr., Union Elec. Light & Power Co., 315 N. 12th St., and 5042 Washington Ave., St. Louis, Mo.
- EINSTEIN, Sol (1913), Ch. Designer, Cincinnati Milling Mch. Co., Oakley, Cincinnati, O.
- EKSTRAND, Charles (1898; 1903), Mech. Engr., Warner Quinlan Asphalt Co., 79 Wall St., New York, N. Y., and *for mail*, The Park, Boonton, N. J.
- EKSTRAND, L. M. (1907), Engr. Chicago Dist., Am. Steel & Wire Co., and *for mail*, 131 Lenox Ave., Waukegan, Ill.
- ELDER, Hugh M. (1912), Genl. Power Engr., Am. Loco. Co., and 1715 Park Ave., Richmond, Va.
- ELDRED, Byron E. (1899; 1903), Pres., Commer. Research Co., 50 E. 41st St., and 170 W. 73d St., New York, N. Y.
- ELDREDGE, A. H. (1894), Cons. Engr., N. E. States Office, North Packing & Provision Co., Boston, and *for mail*, 93 Laurel St., Melrose, Mass.
- ELLENWOOD, Frank Oakes (1913), Asst. Prof. Heat-Power Engrg., Sibley College, Cornell Univ., Ithaca, N. Y.

- ELLCOTT, Edw. Beach (1903), Elec. Engr., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg., and *for mail*, 6229 Winthrop Ave., Chicago, Ill.
- ELLIOTT, Ben. G. (Junior, 1911), Univ. Extension Div., Univ. of Wis., and *for mail*, 15 Northwestern Ave., Oshkosh, Wis.
- ELLIOTT, Elmer G. (1907), Mech. Engr., British America Nickel Corp., Box 707, Sudbury, Ont., Canada, and 1109 Oak St., Oakland, Cal.
- ELLIOTT, Thomas (1904), Ch. Engr., 1312 Traction Bldg., and 354 Shiloh St., Cincinnati, O.
- ELLIOTT, W. E. (1889), Suptg. Engr., Goodrich Transit Co., Chicago, Ill.
- ELLIS, Frank I. (1907), Mgr., Mark Mfg. Co., and *for mail*, 393 Fairmont Ave., Zanesville, O.
- ELLIS, Halcolm (1911), Supt., Ellis Adding-Typewriter Co., Elizabeth and Hawthorne Aves., Newark, and 17 S. Arlington Ave., East Orange, N. J.
- ELLIS, Henry Gibbs (Junior, 1913), Asst. M. M., Ansonia Brass and Copper Branch, The Am. Brass Co., and *for mail*, 69 S. Cliff St., Ansonia, Conn.
- ELLIS, Humphrey Alfred (1912), Genl. Supt., Orenstein-Arthur Koppel Co., Koppel, Pa.
- ELLIS, Weldon T. (1908; 1912), Asst. Prof. Mech. Engrg., N. C. College of Agri. and Mech. Arts, West Raleigh, N. C.
- ELLISON, Lewis Martin (1911; 1913), Steam Expt., Designer and Mfr., 6238 Princeton Ave., Chicago, Ill.
- ELMER, William (1896; 1913), Supt. M. P., No. Div., Pa. R. R., 622 Brisbane Bldg., Buffalo, N. Y.
- ELMES, Chas. W. (1904), Pres., Chas. F. Elmes Engrg. Wks., Morgan and Fulton Sts., and 2922 Prairie Ave., Chicago, Ill.
- ELROD, H. E. (1911), 905 Southwestern Life Bldg., Dallas, Tex.
- ELSTER, Gurdon Gebbart (Associate-Member, 1913), Engr. of Constr., Canadian Car & Fdy. Co., Ltd., Montreal, Que., Canada.
- ELY, Sumner Boyer (1896; 1901), V. P., Chester B. Albree Iron Wks. Co., and 5122 Pembroke Pl., Pittsburgh, Pa.
- ELY, Theo. N. (1880), Manager, 1880-1881; Vice-President, 1882; Ch. of M. P., Pa. R. R., Ret., Bryn Mawr, Pa.
- ELY, Wm. Grosvenor (1893; 1901), Supt. Constr., Genl. Elec. Co., and *for mail*, Lenox Rd., Schenectady, N. Y.
- EMENY, Fred'k James (Associate, 1899), Ch. Engr., The Deming Co., and *for mail*, 459 Cleveland Ave., Salem, O.
- EMERSON, H. B. (1909), Supt. of Mech. Dept., Arlington Mills, Lawrence, and *for mail*, 6 Central St., Methuen, Mass.
- EMERSON, Harrington (1899), Stand. Practice and Efficiency Engr., 30 Church St., New York, N. Y., McCormick Bldg., Chicago, Ill., and Oliver Bldg., Pittsburgh, Pa.
- EMERY, Albert H. (1880), Civ. and Mech. Engr., 788 Main St., Stamford, and Glenbrook, Conn.
- EMERY, James Inman (1912), 73 W. 95th St., New York, N. Y.
- EMMET, W. L. R. (1902), Cons. Engr., Genl. Elec. Co., and 48 Washington Ave., Schenectady, N. Y.

- EMORY, Frederick L. (1894), Life Member; Prof. Mech. and Applied Mathematics, W. Va. Univ., Morgantown, W. Va.
- EMRIE, Almon (1898), Monterey Apt., 43d St. and Chester Ave., Philadelphia, Pa.
- EMSWILER, John Edward (Junior, 1908), Asst. Prof. Mech. Engrg., Univ. of Mich., New Engrg. Bldg., and 1009 Church St., Ann Arbor, Mich.
- ENDSLEY, Louis Eugene (1913), Prof. Ry. Mech. Engrg., Purdue Univ., and *for mail*, 815 N. 9th St., Lafayette, Ind.
- ENGEL, Godfrey (1892), Constr. Engr., Am. Sugar Refining Co., of N. Y., foot of S. 4th St., and 126 Winthrop St., Brooklyn, N. Y.
- ENGEL, Louis G. (1887), Hotel Bossert, Montague and Hicks Sts., Brooklyn, N. Y.
- ENGEL, Philip N. (Associate, 1913), V. P., Internatl. Filter Co., 1702-1704 Wabash Ave., and 4357 Grand Blvd., Chicago, Ill.
- ENGLISH, Harry K. (Associate, 1908), Asst. to Pres., Carter Coal Co., Johnson City, Tenn., and *for mail*, Coalwood, W. Va.
- ENGLISH, William T. (1902), Pres. Walworth-English-Flett Co., 100 Pearl St., Boston, and 1377 River St., Hyde Park, Mass.
- ENNIS, Herbert V. (Junior, 1910), Engrg. Dept., Am. Car & Fdy. Co., New York, N. Y., and *for mail*, 543 Broadway, Paterson, N. J.
- ENNIS, J. B. (1909), Ch. Mech. Engr., Am. Loco. Co., 30 Church St., New York, N. Y., and *for mail*, 615 E. 24th St., Paterson, N. J.
- ENNIS, William Duane (1898; 1907), Prof. Mech. Engrg., Poly. Inst. of Brooklyn, Brooklyn, N. Y.
- ENSLIN, Eugene Flynn, Jr. (Junior, 1904), Elec. and Mech. Engr., 2737 Highland Ave., Birmingham, Ala.
- ENTREKIN, Norman Reese (1906), Genl. Supt., Worth Bros. Co., and *for mail*, 567 Chestnut St., also P. O. Box 760, Coatesville, Pa.
- EPPLE, Edward C. (Junior, 1908), Ch. Draftsman, Turner Constr. Co., 11 Broadway, New York, N. Y., and *for mail*, 250 Central Ave., Jersey City, N. J.
- ERICSON, Edward Oscar (Junior, 1913), Engr., Eng. Dept., Firestone Tire & Rubber Co., Akron, O., and Helmetta, N. J.
- ERICSON, John Ernst (1909), City Engr., Member Harbor and Subway Com., City of Chicago, 402 City Hall, and 848 Lakeside Pl., Chicago, Ill.
- ERLANDSON, Emil William (Junior, 1912), Charge of Engrg., Mass. Fan Co., and *for mail*, 72 Fayette St., Watertown, Mass.
- ERLENKOTTER, Walter (Junior, 1912), Fuel Engrg. Chem., Stand Testing Lab. of City of N. Y., 127 Worth St., New York, N. Y.
- ERNSBERGER, Millard Clayton (1910), Prof. Mech. Engrg., Univ. of Rochester, and 90 Park Ave., Rochester, N. Y.
- ERNST, Alfred F. (Junior, 1909), M. M., Brighton Mills, and *for mail*, 157 Meade Ave., Passaic, N. J.

- ERRINGTON, Franklin A. (1906), Cons. Mech. Engr. and Mfr. Mch. Tools, 39 Cortlandt St., New York; Lab., 24 Norwood Ave., and *for mail*, 31 Townsend Ave., Stapleton, S. I., N. Y.
- ERSKINE, John Stevenson (Junior, 1912), Asst. Ch. Engr., Internatl. Harvester Co., and *for mail*, 151 13th St., Milwaukee, Wis.
- ERWIN, William W. (1910), N. Y. Edison Co., 55 Duane St., New York, N. Y.
- ESSELSTYN, Horace H. (1909), Constr. Engr., The Edison Ill. Co., 18 Washington Ave., and *for mail*, 67 Kenilworth Ave., Detroit, Mich.
- ESTABROOK, Harry Morse (1913), Pres., The Barney & Smith Car Co., and 210 W. Monument Ave., Dayton, O.
- ESTABROOK, Mansfield (Junior, 1903), Niles-Bement-Pond Co., 111 Broadway, New York, N. Y.
- ESTES, William Wood (1891; 1904), Designer, Genl. Fire Extinguisher Co., and *for mail*, 245 Waterman St., East Side Sta., Providence, R. I.
- ESTRADA, E. Duque (1893), Ch. Engr., Div. of Shops and Mchy., Maestranza, Havana, Cuba.
- ESTRADA, Rafael (1904), Central Manatl, P. O. Box 26, Victoria de las Tunas, Cuba.
- EUSTON, Edward R. (Associate, 1913), Second V. P., Treadwell Engrg. Co., 140 Cedar St., New York, N. Y.
- EVANS, Cadwallader, Jr. (1913), Genl. Mgr., Acadia Coal Co., Ltd., Stellarton, N. S., Canada.
- EVANS, Henry O. (1896), Contr. and Designing Engr., Automatic Mchy., care of L. J. Palmer, 710 Commercial Trust Bldg., Philadelphia, Pa.
- EVANS, Howard W. (1913), Mgr. Power Piping Dept., Walworth Mfg. Co., Boston, and 5 Fairbanks St., Brookline, Mass.
- EVANS, Quimby N. (1891), Member of Firm, Evans, Almirall & Co., Clark and Dominick Sts., New York, and *for mail*, 371 Sterling Pl., Brooklyn, N. Y.
- EVANS, Wellington F. (1912), Pres., Stand. Screw Products Co. of Detroit, Mich., Genl. Mgr., Houk Mfg. Co., and *for mail*, 28 Norwood Ave., Buffalo, N. Y.
- EVANS, William A. (1913), The Griscom-Russell Co., 90 West St., New York, N. Y.
- EVANS, Wm. Penn (1907), Mech. Engr., The Baldwin Loco. Wks., 500 N. Broad St., and The Morris Apt., Philadelphia, Pa.
- EWEN, John Meiggs (1887), Cons. Engr., John M. Ewen Co., The Rookery, Chicago, and Lake Forest, Ill.
- EYERMANN, Peter (1908), Engr. of Constr., Witkowitz Steel Wks., Witkowitz, Austria.
- EYNON, Thomas M. (1902), Pres., Eynon-Evans Mfg. Co., 15th and Clearfield Sts., and 1426 Allegheny Ave., Philadelphia, Pa.
- FABENS, Andrew Lawrie (Junior, 1911), Supt., No. Aluminum Co., Ltd., Sterling Rd., Toronto, Ont., Canada.

- FABER, John Pelham (Junior, 1908), Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and *for mail*, Dunellen, N. J.
- FABER du FAUR, Adolph (1880), Life Member; 58 Seymour Ave., and 17 Farley Ave., Newark, N. J.
- FAIG, John T. (1897; 1905), Prof. Mech. Engrg., Univ. of Cincinnati, and 3345 Whitfield Ave., Cincinnati, O.
- FAILE, E. H. (Junior, 1907), Supvg. Engr., Adams Express Bldg. Co., 61 Broadway, and *for mail*, 220 W. 110th St., New York, N. Y.
- FAIR, Charles (1913), Engr. Power and Min. Engrg. Dept., Genl. Elec. Co., Schenectady, N. Y.
- FAIRBANKS, Frank Leon (1913), Ch. Engr., Quincy Market Cold Storage & Warehouse Co., 69 Eastern Ave., and 1173 Commonwealth Ave., Boston, Mass.
- FAIRBANKS, Robert Noyes (Associate, 1895), 30 Linden Gardens, W., London, England.
- FAIRFIELD, Howard P. (1901), Instr., Worcester Poly. Inst., and *for mail*, 1 Dayton St., Worcester, Mass.
- FAISON, William Alexander (Junior, 1913), Spec. Apprentice, Am. Steel Foundries, Indiana Harbor, Ind.
- FALES, Henry Hammett (1913), Supvg. Engr., Willett, Sears & Co., 60 Federal St., Boston, and *for mail*, 131 Cedar St., Braintree, Mass.
- FALKENAU, Arthur (1886), Industrial and Cons. Engr., 165 Broadway, and *for mail*, 911 Park Ave., New York, N. Y.
- FALLON, John (Junior, 1910), Cons. Engr., Union Stock Yards, Chicago, Ill.
- FALLON, John B. (Junior, 1905), Treas., Stickney & Poor Spice Co., 184 State St., and 138 Marlboro St., Boston, Mass.
- FANNON, Wm. A. (1907), V. P. and Mgr., Inter-Lake Pulp & Paper Co., and *for mail*, 460 Alton St., Appleton, Wis.
- FARKELL, George C. (1913), Supt. Rail Mill and Mech. Dept., The Natl. Tube Co., Lorain Wks., Lorain, and *for mail*, 31 The Colonial, Elyria, O.
- FARLEY, Ernst Watson (1913), Genl. Maintenance Engr., Am. Loco. Co., 30 Church St., New York, N. Y., and *for mail*, 707 Brook Turnpike, Ginter Park, Richmond, Va.
- FARMER, John T. (1902; 1913), Mech. and Hyd. Engr., 314 Coristine Bldg., Montreal, and 334 Lansdowne Ave., Westmount, Que., Canada.
- FARMER, Thomas (1891), Warner & Swasey Co., 1614 Ford Bldg., Detroit, Mich.
- FARQUHAR, Edmund Henry (1910), Supt., Genl. Elec. Co., Schenectady, N. Y.
- FARQUHAR, Francis (1907), Genl. Mgr., A. B. Farquhar Co., Ltd., York, Pa.
- FARR, Arthur V. (Junior, 1913), Mech. Engr., Engrg. Supv. Co., 366 Fifth Ave., New York, N. Y., and *for mail*, 39 Clinton Ave., Maplewood, N. J.
- FARR, Roy S. (Junior, 1913), Asst. Engr., Compania Mexicana de Petroleo "El Aguila," S. A., Tampico, Tamps., Mex.

- FARRAND, Dudley (1895; 1905), Genl. Mgr., Pub. Service Elec. Co., 759 Broad St., and 49 Lincoln Park, Newark, N. J.
- FARRAR, Chas. O. (1902), Supt. Constr., Otis Elev. Co., 34 India St., and *for mail*, 10 Thurston St., Winter Hill Sta., Boston, Mass.
- FARRAR, Edward (1907), Cons. Mech. Engr., Genl. Min. and Finance Corp., and *for mail*, Box 1242, Johannesburg, Transvaal, S. A.
- FARRELL, Frederick L. (Junior, 1913), Economizer Engrg., B. F. Sturtevant Co., Rm. 1667, 50 Church St., New York, N. Y.
- FARRELL, Harry C. (1908), Mech. Engr., United Shoe Mchy. Co., Beverly, and *for mail*, 48 Grant Rd., Swampscott, Mass.
- FARRELL, Morgan G. (Junior, 1913), Supvg. Engr., Suffern & Son, 149 Broadway, New York, and *for mail*, 128 Primrose Ave., Mt. Vernon, N. Y.
- FARRELL, W. Elliston (1900), Pres., Easton Car & Constr. Co., and cor. Pierce and Broadhead Sts., Easton, Pa.; also, Pres., Am. Die & Tool Wks., Reading, Pa.
- FARRINGTON, Thomas H. (1912; Associate-Member, 1913), Civ. and Mech. Engr., Owego, Tioga Co., N. Y.
- FASSETT, Francis Keith (1912), Inventor, Designer and Pat. Atty., 1309 U. B. Bldg., Dayton, O.
- FAST, Jacob J. (Associate, 1912), Designer of Mchy. for Movable Bridges, Waddell & Harrington, 1012 Baltimore Ave., Kansas City, Mo.
- FAULKNER, David Sinclair (1912; Associate-Member, 1913), Union Tool Co., Union Oil Bldg., and *for mail*, 218 Ave. 56, W., Los Angeles, Cal.
- FAULL, Richard (1907), Mech. Engr., Tenn. Coal, Iron & R. R. Co., and 1501 Minnesota Ave., Bessemer, Ala.
- FAWCETT, Wallace H. (Junior, 1903), 1002 Old Natl. Bank Bldg., Spokane, Wash.
- FAWCUS, Thomas (1913), Pres., Fawcus Mch. Co., 2828 Smallman St., and *for mail*, 6118 Jackson St., E. E., Pittsburgh, Pa.
- FEAGLES, Ralph L. (1912), Deister Mch. Co., Schoaff Bldg., Fort Wayne, Ind.
- FEICHT, Edward R. (Junior, 1907), Ch. Engr., Sacramento Valley Sugar Co., Hamilton City, Cal.
- FEIKER, Fred Morris (Associate, 1912), Editorial Dir., A. W. Shaw Co., 5 N. Wabash Ave., Chicago, and *for mail*, 1612 Forest Ave., Wilmette, Ill.
- FEISS, Richard Albert (Associate, 1913), Genl. Mgr., The Joseph & Feiss Co., 2149 W. 53d St., Cleveland, O.
- FEKETE, Stephen I. (Junior, 1910), Engrg. Dept., Hudson Motor Car Co., and 743 Waterloo St., Detroit, Mich.
- FELDMAN, Abram Meyer (1900), Cons. Engr., 120 Liberty St., and 201 W. 107th St., New York, N. Y.
- FELKER, George F. (Junior, 1913), N. Y. Rep., Pittsburgh Valve, Fdy. & Constr. Co., Inc., 30 Church St., New York, N. Y.

- FELLMETH, J. W. (1913), Asst. Engr., The Marion Steam Shovel Co., Marion, O.
- FELLOWS, Edwin R. (1898), Mgr., The Fellows Gear Shaper Co., Springfield, Vt.
- FELTHOUSEN, John H. (1896), Hyd. and Mech. Engr., S. Morgan Smith Co., and *for mail*, Linden Ave. and West St., York, Pa.
- FELTON, Edgar Conway (1885), Manager, 1898-1901; Pres., Penn Steel Co., Morris Bldg., Philadelphia, and *for mail*, Haverford, Pa.
- FENHAGEN, Frank Donald (Junior, 1913), Asst. Engr. with Henry Adams, Cons. Engr., 859 Calvert Bldg., Baltimore, Md.
- FENN, Robert Willson (1910), Lindsay, Cal.
- FENNER, David C. (1906), 1764 Broadway, New York, N. Y., and 1200 Denmark Rd., Plainfield, N. J.
- FENNER, Herbert N. (Associate, 1891), Pres., N. E. Butt Co., and 74 Cooke St., Providence, R. I.
- FERGUS, William L. (1903; 1906), W. L. Fergus & Co., 1509 Fisher Bldg., and 4030 Clarendon Ave., Chicago, Ill.
- FERGUSON, Geo. R. (1890), Asst. Engr., Dept. of Bridges, 179 Washington St., Brooklyn, N. Y.
- FERGUSON, Hardy Smith (1899), Cons. Engr., 200 Fifth Ave., New York, N. Y.
- FERGUSON, J. W. (1891), Engr. and Bldg. Contr., 152 Market St., and 12th and 28th St., Paterson, N. J.; also, 253 Broadway, New York, N. Y.
- FERGUSON, Milford B. (1912), Supt., Package Mchy. Co., Birnie Ave., and Portland St., and *for mail*, 57 Warner St., Springfield, Mass.
- FERGUSON, W. Craig (Junior, 1912), V. P., Treas. and Asst. Mgr., Walla Walla Iron Wks., and *for mail*, P. O. Box 465, Walla Walla, Wash.
- FERMIER, Emile J. (1908), Prof. Mech. Engrg., Agri. and Mech. College of Tex., College Sta., Tex.
- FERNALD, Robt. H. (1900; 1903), Whitney Prof. Dynamical Engrg., Univ. of Pa., and Cons. Engr., U. S. Bureau of Mines, Philadelphia, and 6386 Woodbine Ave., Overbrook, Philadelphia, Pa.
- FERRIER, Walter (1908), Asst. Supt., Am. Vanadium Co., Bridgeville, and Woodville, Pa.
- FERRIS, Charles Edward (1904), Prof. Mech. Engrg., and Dean of Engrg., Univ. of Tenn., and 1312 White Ave., Knoxville, Tenn.
- FERRIS, Walter (1907), Ch. Engr., Bucyrus Co., South Milwaukee, and *for mail*, 710 Prospect Ave., Milwaukee, Wis.
- FERRY, Ralph Montague (Junior, 1912), 501 Sixth Ave., New Kensington, Pa.
- FESSENDEN, Chas. Horace (Junior, 1909), Asst. Prof. Mech. Engrg., Univ. of Mich., 333 New Engrg. Bldg., and 721 S. Ingalls St., Ann Arbor, Mich.

- FESSENDEN, Edwin Allan (Junior, 1908), Assoc. Prof. Mech. Engrg., Charge of Dean's Office, Univ. of Mo., and *for mail*, 1331 Ross St., Columbia, Mo.
- FICKES, Edwin S. (Associate, 1902), Engr. and Pur. Agt., Aluminum Co. of Am., and *for mail*, 6316 Bartlett St., Pittsburgh, Pa.
- FICKINGER, P. J. (1888), Mech. Engr., P. & C. Dock Co., Conneaut, O.
- FIELD, Allan Bertram (1913), care of Brown, Shipley & Co., Travellers' Office, 123 Pall Mall, London, S. W., England.
- FIELD, Freeman (Associate, 1910), Pres., The Field-Olds Co., 1618 Walnut Ave., and 8314 Euclid Ave., Cleveland, O.
- FIEUX, Ernest D. (Junior, 1907), Pres. and Treas., L. J. Wing Mfg. Co., 352-362 W. 13th St., and *for mail*, 450 W. 147th St., New York, N. Y.
- FILLINGHAM, Myles Percy (1908), Cons. and Contr. Engr., Hudson Terminal Bldg., 50 Church St., New York, N. Y., and 104 N. Cliff St., Ansonia, Conn.
- FINCH, Ellis J. (Junior, 1911), Mech. Inspr., N. Y. C. & H. R. R. Co., care of Dist. Engr., Albany, N. Y.
- FINDLEY, William D. (Associate, 1913), Ch. Engr., Webster Mfg. Co., and 276 E. Market St., Tiffin, O.
- FINK, Emil Charles (Associate, 1913), V. P., Internatl. Motor Co., 1770 Broadway, and *for mail*, 851 W. 181st St., New York, N. Y.
- FINLAYSON, Edward H., Jr. (Junior, 1913), Asst. Engr., The Am. Stoker Co., 11 Broadway, and *for mail*, 102 W. 84th St., New York, N. Y.
- FINLEY, A. D. (1898; Associate, 1903), Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 206 Leicester St., Fairmont Park, Port Chester, N. Y.
- FIRESTONE, Sigmund (1912), Cons. Mech. and Elec. Engr., Granite Bldg., and 293 Dartmouth St., Rochester, N. Y.
- FIRMSTONE, Frank (1880), Easton, Pa.
- FIRTH, William Edgar (1893), Safety Engr., Midvale Steel Co., Box 1606, Philadelphia, and 523 Hansberry St., Germantown, Philadelphia, Pa.
- FISCHER, Ad. Koerting (1904), Pres., Schutte & Koerting Co., 12th and Thompson St., and *for mail*, 6904 Wissahickon Ave., Philadelphia, Pa.
- FISH, Charles H. (1891), 85 Devonshire St., and *for mail*, P. O. Box 1593, Boston, Mass.
- FISHER, Elbert C. (1891; 1913), V. P. and Genl. Mgr., Wickes Boiler Co., and 308 N. Jefferson Ave., Saginaw, Mich.
- FISHER, Elbert Clement (1913), Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and 210 Speedwell Ave., Morristown, N. J.
- FISHER, Henry Donald (Junior, 1907), Fuel Testing Co., 220 Devonshire St., Boston, and 338 Lake Ave., Newton Highlands, Mass.
- FISHER, Howard Colburn (Junior, 1912), Constr. Engr., Sayles' Bleacheries, and *for mail*, 1111 Smithfield Ave., Saylesville, R. I.

- FISHER, John (1910), Ch. Engr., Hartford Dist., The Conn. Co., and *for mail*, 45 Webster St., Hartford, Conn.
- FISHER, Lieut. Joseph Otto (Junior, 1910), U. S. Navy, Ch. Engr., U. S. S. North Dakota, care of Postmaster, New York, N. Y., and *for mail*, 632 Main St., Lewiston, Me.
- FISHER, William Wallace (Junior, 1910), Engr. Pierce Patents Co., 220 Fifth Ave., New York, and *for mail*, 120 Linden Ave., Brooklyn, N. Y.
- FITCH, Alfred Lyon (Associate, 1907), Mech. Engr., Electro-Mech. Engrg. Co., Peoples Gas Bldg., and *for mail*, 1132 E. 45th St., Chicago, Ill.
- FITCH, Claude E. (1902), Cons. Mech. Engr., V. P., Allen Engrg. Co., 1233 First Natl. Bank Bldg., Chicago, and *for mail*, 1033 Elmwood Ave., Wilmette, Ill.
- FITTS, James Logan (1913), Factory Mgr., Warren Webster & Co., Point and Pearl Sts., Camden, and *for mail*, 103 W. Cedar Ave., Merchantville, N. J.
- FITZ, Ervin M. (Junior, 1901), Elec. Engr. M. P. Dept., Pa. Lines West of Pittsburgh, New First Natl. Bank Bldg., and 35 N. 9th St., Columbus, O.
- FITZGERALD, Charles (1912), Mgr. Sales and Asst. Genl. Mgr., Pittsburgh Valve Fdy. & Constr. Co., and *for mail*, 6361 Jackson St., Pittsburgh, Pa.
- FITZGERALD, Edward Thomas (1913), Ry. Engr., Public Service Com., First Dist., and *for mail*, 1190 Madison Ave., New York, N. Y.
- FITZGIBBONS David (1912), V. P. and Genl. Mgr., Fitzgibbons Boiler Co., and 68 E. Mohawk St., Oswego, N. Y.
- FITZSIMMONS, James Calvin (1913), Mgr. Fuel, Gas and Rd. Oils and Asphaltum Depts., Stand. Oil Co., San Francisco, Cal.
- FLAD, Edward (1891), Cons. Engr., De Menil Bldg., and 5575 Waterman Ave., St. Louis, Mo.
- FLADD, Frederick C. (1887), Traveling and Cons. Engr., E. W. Bliss Co., 17 Adams St., and *for mail*, 169 Quincy St., Brooklyn, N. Y., and New Canaan, Conn.
- FLAGG, Samuel B. (Junior, 1907), Engr., U. S. Bureau of Mines, 40th and Butler Streets, Pittsburgh, and Savoy Apts., Coal St. and Rebecca Ave., Wilkesburg, Pa.
- FLAGG, Stanley G., Jr. (1891), Manager, 1910-1913; S. G. Flagg & Co., Morris Bldg., 1421 Chestnut St., Philadelphia, Pa.
- FLANDERS, Ralph E. (Associate, 1908), Mgr. of Fay Lathe, Jones & Lamson Mch. Co., and *for mail*, 41 Pleasant St., Springfield, Vt.
- FLANIGAN, Edwin B. (Junior, 1913), Asst. to M. M. Spring Wks., Sheldon Axle Co., and 65 W. South St., Wilkes-Barre, Pa.
- FLANNERY, John M. (1907), Solvay Process Co., and *for mail*, 1628 W. Genesee St., Syracuse, N. Y.
- FLATHER, Frederick A. (1892), Treas., Boott Mills, 79 Milk St., Boston, and *for mail*, 68 Mansur St., Lowell, Mass.

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- FLEMING, Henry Stuart (1903), Cons. Engr., 1 Broadway, and 2 E. 65th St., New York, N. Y.
- FLEMING, Robert F. (Junior, 1913), Sterrett & Fleming, 707 Evans Bldg., Washington, D. C.
- FLEMING, Wills M. (1905; 1909), Engr. in Charge Drawing Room, Deane Steam Pump Co., and *for mail*, 370 Maple St., Holyoke, Mass.
- FLETCHER, Andrew (1893), Pres. and Treas., W. & A. Fletcher Co., Hoboken, N. J., and Glen Cove, L. I., N. Y.
- FLETCHER, E. Leslie (1909), Pres., Fletcher Engrg. Co., Odd Fellows Bldg., and 1254 E. Main St., Bridgeport, Conn.
- FLETCHER, James R. (1906), Genl. Supt., P. & F. Corbin Mfg. Co., and *for mail*, 80 Russell St., New Britain, Conn.
- FLETCHER, W. H. (1899), V. P., W. & A. Fletcher Co., North River I. W., Hudson St., 12th to 14th Sts., Hoboken, N. J., and 271 W. 90th St., New York, N. Y.
- FLETEMEYER, Louis H. (Junior, 1906), Sales Dept., A. R. Williams Mch. Co., Ltd., and *for mail*, 163 Grenadier Rd., Toronto, Ont., Canada.
- FLICKINGER, Harrison William (Junior, 1911), Armstrong Cork Co., 24th St., and 256 Bellefield Ave., Pittsburgh, Pa.
- FLIEGELMAN, David (Junior, 1913), Engrg. Dept., Deane Steam Pump Co., and *for mail*, 247 Maple St., Holyoke, Mass.
- FLINN, Charles F. (Associate, 1905), Mech. Engr., Tree Haven Apts., Berkeley, Cal.
- FLINN, Melville Stone (1913), Secy. and Treas., Flinn & Dreffein Co., 1403 Manhattan Bldg., Chicago, Ill.
- FLINN, Thos. C. (1906), Genl. Supt., Kennedy Valve Mfg. Co., P. O. Box 65, and 113 Grove St., Elmira, N. Y.
- FLINN, Thomas F. (1892), Mech. Engr., 72 Second Pl., Brooklyn, N. Y.
- FLINT, Bertram Pierpont (1894), McIntosh, Seymour & Co., 50 Church St., New York, N. Y.
- FLINT, William P. (1903), Engr. Gas Eng. Dept., Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 5623 Wellesley Ave., Pittsburgh, Pa.
- FLORY, Burton P. (1906), Supt. M. P., Ont. and West. Ry. Co., Middletown, N. Y.
- FLORY, John Henry (Associate-Member, 1913), Asst. Sales Mgr., The Jeffrey Mfg. Co., and *for mail*, 116 E. Lane Ave., Columbus, O.
- FLYNN, Michael Henry (1913), Supt. Factory, Royal Typewriter Co., and *for mail*, 63 Sisson Ave., Hartford, Conn.
- FOGARTY, William James (1911), Mech. Engr., Barney & Smith Car Co., and *for mail*, 74 Fountain Ave., Dayton, O.
- FOGG, Oscar H. (1907; 1913), Engr. of Utilization, Consld. Gas Co. of N. Y., 128 E. 15th St., New York, N. Y.
- FOGLER, Ben Baker (Junior, 1912), Efficiency Engr., Ludlow Mfg. Associates, Lock Box 88, and 52 North St., Ludlow, Mass.

- FOLEY, Leonard H. (Junior, 1912), Foreman Drafting Room Sta. Engrg. Dept., Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, and *for mail*, 17 Western Ave., Natick, Mass.
- FOLEY, Walter J. (Junior, 1910), Mech. Engr., San Francisco Bridge Co., 1005 Nevada Bank Bldg., and *for mail*, 236 Ninth Ave., San Francisco, Cal.
- FOLLER, Chas. S. (1906), West. Sales Mgr., Union Spring & Mfg. Co., 1322 Central Natl. Bank Bldg., and 4605 Maryland Ave., St. Louis, Mo.
- FOLSOM, Eugene L. (1913), Supt. Statistics, Waltham Watch Co., and *for mail*, 101 Washington Ave., Waltham, Mass.
- FONDA, Burton Cole (Junior, 1912), Student Engr., Genl. Elec. Co., and *for mail*, 45 Front St., Schenectady, N. Y.
- FOOTE, Andrew W. (1900), Pres., Foote Burt Co., 4100-4109 St. Clair St., Cleveland, and Gates Mills, Cuyahoga Co., O.
- FORAN, George Jesse (1887; 1893), Mgr. Condenser Dept., Internatl. Steam Pump Co., and *for mail*, 471 Central Park W., New York, N. Y.
- FORBES, Harry Rogers (Associate, 1911), East. Rep., Lumen Bearing Co., Rm. 573, 50 Church St., New York, N. Y.
- FORD, Bruce (1907), Fourth V. P., The Elec. Storage Battery Co., 19th St. and Allegheny Ave., Philadelphia, and 25 Summit St., Chestnut Hill, Philadelphia, Pa.
- FORD, John D. (1884), Rear Admiral, U. S. N., 2319 Maryland Ave., Baltimore, Md.
- FORD, William Lucas (1911), N. E. Sales Mgr., Murphy Iron Wks. of Detroit, Mich., 201 Devonshire St., Boston, Mass.
- FORDYCE, John R. (1899), Cons. Engr., Cotton Ginning Conveying and Compressing Mch., Box 346, Hot Springs, Ark.
- FORFAR, Donald M. (Junior, 1913), Mgr. St. Paul Office, Charles L. Pillsbury Co., 805 Metropolitan Life Bldg., and 3025 Fremont Ave., S., Minneapolis, Minn.
- FORGY, J. Edmonds (1906; 1913), Ch. Engr., Charles Warner Co., Du Pont Bldg., and 1314 Van Buren St., Wilmington, Del.
- FORREST, George Munro (1912), Remington Typewriter Co., 293 Broadway, and 454 Riverside Drive, New York, N. Y.
- FORSBURG, Henry A. (1911), Genl. Supt. Trunk Lines, Stand. Oil Co. of Cal., San Pablo, and 1616 Josephine St., Berkeley, Cal.
- FORSTALL, Alfred E. (1899), Cons. Engr., 84 William St., New York, N. Y., and Montclair, N. J.
- FORSYTH, Robert (1881), Manager 1891-1894; Cons. Engr., 1159 The Rookery, Chicago, Ill.
- FORSYTH, Robert (1901), Cons. Engr., 1996 Green St., San Francisco, Cal.
- FORSYTH, William (1883), Manager, 1888-1891; Mech. Engr., 7020 Chew St., Mt. Airy, Philadelphia, Pa.
- FORTÉ, Harry Phidias (Junior, 1912), Mech. Engr., Beech-Nut Packing Co., Canajoharie, N. Y.
- FORTNEY, Camden P. (Associate-Member, 1913), Junior Engr., U. S. A. Engrs., Louisville, Ky., and 10 Grow Ave., Montrose, Susquehanna Co., Pa.

- FORTUNE, John Robert (1912), Ch. Engr., Murphy Iron Wks., and *for mail*, 297 E. Grand Blvd., Detroit, Mich.
- FOSTER, C. H. (1886), Treas., Tolhurst Mch. Wks., and *for mail*, 31 Belle Ave., Troy, N. Y.
- FOSTER, Ernest Howard (1885; 1894), V. P., Power Spec. Co., 111 Broadway, New York, N. Y.
- FOSTER, Jed S. (1891; 1903), Engr., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and Stoneleigh Park, Westfield, N. J.
- FOSTER, John Melville (1900), Pres. and Genl. Mgr., Foster Engrg. Co., 109 Monroe St., Newark, N. J., and Hotel Marie Antoinette, New York, N. Y.
- FOSTER, Rufus J. (Associate, 1890), V. P., Internatl. Text Book Co., Managing Editor, The Colliery Engineer, 434 Wyoming Ave., and 807 Clay Ave., Scranton, Pa.
- FOSTER, William B. (1908), V. P. and Ch. Engr., Foster Bros. Mfg. Co., and 79 Oneida St., Utica, N. Y.
- FOWDEN, William (1913), Supt., The U. S. Portland Cement Co., Concrete, Colo.
- FOWLER, Geo. L. (1886), Cons. Mech. Engr., 83 Fulton St., New York, N. Y.
- FOWLER, Wallace Sherman (Junior, 1912), Draftsman, McIntosh & Seymour Co., and *for mail*, 38 Chedell Pl., Auburn, N. Y.
- FOX, Charles H. (1900), Pres., Ahrens-Fox Fire Eng. Co., Alfred and Cook Sts., Cincinnati, and *for mail*, 3547 Shaw Ave., Hyde Park, Cincinnati, O.
- FOX, Sir Douglas (Honorary, 1900), Head of Firm, Messrs. Sir Douglas Fox and Partners, 56 Moorgate St., London, E. C., and Kippington Grange, Sevenoaks, Kent, England.
- FOX, John Herbert (1904), Ch. Engr., Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, Pa.
- FOX, Royal E., Jr. (1901; 1911), V. P., The Engr. Co., Rm. 1852, 50 Church St., and Irving Arms, 222 Riverside Drive, New York, N. Y.
- FOX, Rudolph H. (Junior, 1913), Exper. Engr., Fafnir Bearing Co., New Britain, and *for mail*, 54 Oak St., Hartford, Conn.
- FOX, William (1900), Assoc. Prof. Physics, College of the City of N. Y., 139th St. and Convent Ave., and *for mail*, 575 W. 183d St., New York, N. Y.
- FRAIM, Samuel R. (1913), Secy. and Mech. Engr., The E. T. Fraim Lock Co., and *for mail*, 551 N. Lime St., Lancaster, Pa.
- FRANCE, Laurel Edson (Junior), Mech. Draftsman, 1737 W. Adams St., Los Angeles, Cal.
- FRANCIS, Charles A. (Associate, 1906), Genl. Elec. Co., Pittsfield, Mass.
- FRANCIS, Isaac Hathaway (1911), Cons. Engr., 1508 Commonwealth Trust Bldg., Philadelphia, and Grant and Milnor Sts., Torresdale, Philadelphia, Pa.
- FRANCIS, W. H. (1884), Union League, Broad and Sansom Sts., Philadelphia, Pa.

- FRANCISCO, Ferris L. R. (1906; 1912), Cons. Engr., Rm. 1252, 200 Fifth Ave., New York, N. Y., and 416 Bergen Ave., Jersey City, N. J.
- FRANK, Edwin (Junior, 1909), Hyd. Dept., Allis-Chalmers Mfg. Co., West Allis, and *for mail*, 2300 Grand Ave., Milwaukee, Wis.
- FRANKENBERG, George T. (Associate, 1907), Contr., Normandie Hotel, Columbus, O.
- FRANKLIN, Benjamin Alvey (1913), V. P., Strathmore Paper Co., Mittineague, and 36 Bellevue Ave., Springfield, Mass.
- FRANKLIN, Edward J. (1913), Cons. Mech. Engr., Ray Consltd. Copper Co., Supvg. Engr., Chino Copper Co., and Utah Copper Co., Hayden, Ariz., and 1610 W. 10th St., Los Angeles, Cal.
- FRANKS, Fredk. B. (1904), Mgr. Operating and Constr. Cement Plant, Bath Portland Cement Co., Bath, Pa.
- FRANZ, Walter G. (1907), Cons. Engr., Union Trust Bldg., and 2613 Eden Ave., Cincinnati, O.
- FRASER, D. Ross (Junior, 1907), Chicago Portland Cement Co., Oglesby, Ill.
- FRASER, Norman D. (1886), Pres., Chicago Portland Cement Co., 30 N. La Salle St., and *for mail*, 2928 Washington Blvd., Chicago, Ill.
- FRECHTLING, Arthur Geo. (Junior, 1906), 216 N. C St., Hamilton, O.
- FREDERICK, Floyd W. (1907), The Underwriters' Laboratories, Inc., 207 E. Ohio St., Chicago, Ill.
- FREEMAN, Frederick Charles (Junior, 1911), United Gas Improvement Co., Broad and Arch Sts., Philadelphia, Pa.
- FREEMAN, J. Porter (1908), Constr. Engr., Alex. Smith & Sons, and *for mail*, 225 Woodworth Ave., Yonkers, N. Y.
- FREEMAN, John R. (1887), Vice-President, 1902-1904; President, 1905; Cons. Engr., N. Y. Board of Water Supply, 165 Broadway, New York, N. Y., and Pres., Mfrs. Mut. Fire Ins. Co., and *for mail*, 815 Grosvenor Bldg., and res., 235 Arlington Ave., Providence, R. I.
- FREEMAN, Lewis DeWitt (Junior, 1913), Ch. Draftsman, The Kansas City So. Ry. Co., Pittsburg, Kan.
- FREEMAN, Perry John (Junior, 1908), Gullett Cotton Gin Co., Amite, La.
- FREEMAN, William James (1913), Member of Firm, Sloan Huddle Feustel & Freeman, Madison, Wis.
- FRENCH, Edward Vinton (1905), V. P. and Engr., Arkwright Mut. Fire Ins. Co., 31 Milk St., Boston, and Andover, Mass.
- FRENCH, Lester Gray (1899; 1912), Editor, Am.Soc.M.E., 29 W. 39th St., New York, and 70 Fisher Ave., White Plains, N. Y.
- FRESHNEY, Samuel Ambrose (1913), Genl. Mgr., Grand Rapids-Muskegon Power Co., Grand Rapids, Mich.
- FREUND, Walter F. W. (Junior, 1913), Power Efficiency Engr., Morgan & Wright, and *for mail*, 245 17th St., Detroit, Mich.

- FREVERT, H. F. (Associate, 1893), Pres. and Treas., Frevert Mchy. Co., 38 Vesey St., New York, N. Y.
- FREYN, Heinrich Josef Karl (1906), Third V. P., H. Koppers Co., 5 S. Wabash Ave., and Hotel Windermere, E. 56th St., Chicago, Ill.
- FRICK, Abraham O. (1885), Pres., The Frick Co., and *for mail*, Clayton Ave., Waynesboro, Pa.
- FRIEDMAN, Ferdinand J. (Junior, 1913), Engr. & Contr., 357 St. Catherine St., W., and 144 Drummond St., Montreal, Que., Canada.
- FRINK, Francis G. (1913), Secy., Wash. Iron Wks., and 140 40th Ave., Denny Blaine Park, Seattle, Wash.
- FRINK, Gerald (1913), V. P. and Mgr., Wash. Iron Wks., and 403 31st Ave., S., Seattle, Wash.
- FRITZ, Aimé L. G. (Junior, 1907), Engr., Charge Constr., Toronto Elec. Light Co., 12 Adelaide St., E., Toronto, Ont., Canada.
- FROHRIB, Louis C. (1913), Federal Engrg. Co., 1116 House Bldg., and 1107 Peermont Ave., Dormant Boro, Pittsburgh, Pa.
- FROHWEIN, Richard W. (Junior, 1907), Pur. Agt., M. H. Treadwell Co., 140 Cedar St., New York, N. Y., and *for mail*, 431 Magie St., Elizabeth, N. J.
- FROMMEYER, R. Erich (1913), Pres. and Genl. Mgr., The Schaeffer & Budenberg Mfg. Co., and *for mail*, 481 De Kalb Ave., Brooklyn, N. Y.
- FROST, Edward J. (1908), Pres. and Genl. Mgr., Frost Gear & Mch. Co., Horton and Tyson Sts., and 301 First St., Jackson, Mich.
- FROST, Frank George (1913), Res. Engr., Ford, Bacon & Davis, care of Houston Ltg. & Power Co., Houston, Tex.
- FROST, Harwood (1910), Pres. Brown Portable Elev. Co., 10 S. La Salle St., and 4756 Kenmore Ave., Chicago, Ill.
- FROTHINGHAM, Francis Edward (1898; 1904), Engr., Perry, Coffin & Burr, 60 State St., and 22 Charles River Sq., Boston, Mass.
- FRY, Alfred Brooks (1892), Ch. Engr., U. S. Treas. Service, and Cons. Engr., Asso. for Protection of the Adirondacks, U. S. Custom House Bldg., New York, N. Y.
- FRY, Lawford H. (1905), Supt. of Product, Stand. Steel Wks. Co., Burnham, Pa.
- FRY, Thomas W. (1904), Secy. and Wks. Mgr., Sullivan Mchy. Co., Claremont, N. H.
- FRYER, Geo. G. (1891), Cons. Engr., 203 Onondaga Ave., Syracuse, N. Y.
- FUCHS, Ernesto (1906), Engr. and Arch., 87 Progreso St., Guadalajara, Mex.
- FUCHS, Herman (1909), Mgr. Mexican Dept., Fairbanks, Morse & Co., 801 Clark Ave., and *for mail*, 3910 Cleveland Ave., St. Louis, Mo.
- FULLER, Allen Jenckes (1901), Supt., Bureau of Water, City Hall, and *for mail*, 3406 Baring St., Philadelphia, Pa.

- FULLER, Arthur Ames (1912), Supt., Providence Engrg. Wks., Providence, and *for mail*, 19 Hawthorne Ave., East Providence, R. I.
- FULLER, Benjamin Delano (1910), Supt. of Foundries, Westinghouse Elec. & Mfg. Co., Cleveland and Allegheny City Wks., Box 382, Cleveland, and 1511 Ellbur Ave., Lakewood, O.
- FULLER, Charles Edward (1912), Prof. Theoretical and Applied Mechanics, Mass. Inst. of Tech., Boston, and Wellesley, Mass.
- FULLER, Floid M. (Junior, 1907), Cons. Engr., 812-814 Torrey Bldg., and Y. M. C. A., Duluth, Minn.
- FULLER, George W. (1910), Cons. Engr., 170 Broadway, New York, N. Y.
- FULLER, Henry Jones (1913), V. P., Fairbanks-Morse & Co., Rm. 615, 30 Church St., New York, N. Y., and Pres., Canadian Fairbanks-Morse Co., Ltd., 444 St. James St., Montreal, Que., Canada.
- FULLER, Col. James Wheeler, Jr. (1910), Pres., Lehigh Car, Wheel & Axle Wks., and *for mail*, cor. Bridge St., and Hometown Ave., Catasauqua, Pa.
- FULLER, Ray W. (Associate, 1909), Elec. Engr., 1530 Wyoming Ave., Scranton, Pa.
- FULLER, Walter Dean (Associate, 1913), Mgr. Acctg. Dept., Curtis Publishing Co., Philadelphia, Pa., and Woodbury, N. J.
- FULTON, Arthur Oram (Junior, 1911), Mgr. Hy Ten Steel Dept., Wheelock Lovejoy & Co., 35 Oliver St., Boston, and *for mail*, 14 Oxford Rd., Newton Center, Mass.
- FULWEILER, John Edwin (1908; 1913), Member of Firm, Perkins, Fulweiler & Co., 122 N. 11th St., and 4355 Chestnut St., Philadelphia, Pa.
- FUNK, Nelson E. (1909), Cons. Engr., Pres. and Mgr., Funk Mch. Co., 1401 Clinton St., Hoboken, and 31 Forest St., Montclair, N. J.
- FUNK, Wm. Francis (1892; 1905), Secy., La Crosse Boiler Co., Gould and Mill Sts., and 1407 Main St., La Crosse, Wis.
- FURMAN, Franklin De R. (1902), Prof. Mechanism and Mch. Design, Stevens Inst. of Tech., Hoboken, N. J., and Hotel Earle, 103 Waverly Pl., New York, N. Y.
- GABRIEL, Charles R. (1901), Cons. and Designing Engr., E. W. Bliss Co., and *for mail*, 1810 Glenwood Rd., Ave. G, Brooklyn, N. Y.
- GABRIEL, Wm. A. (1891), Ch. Draftsman and Designer, Elgin Natl. Watch Co., and *for mail*, 570 Chicago St., Elgin, Ill.
- GAEBELEIN, Arno Wesley (Junior, 1913), Ch. Engr., Clarence N. Peacock & Co., 1790 Broadway, New York, and *for mail*, 228 N. Fulton Ave., Mt. Vernon, N. Y.
- GAEHR, David (1902; 1909), Designing and Contr. Engr., 950-952 Rockefeller Bldg., Cleveland, O.
- GAGER, Edwin Baker, Jr. (Junior, 1912), Scientific Management Engr., Farrel Fdy. & Mch. Co., Ansonia, and 49 Atwater Ave., Derby, Conn.

- GAINES, Frederic F. (1901), Supt. M. P., Central of Ga. R. R., and 208 W. 36th St., Savannah, Ga.
- GALBRAITH, Geo. W. (Associate, 1899), Sales Mgr., Internatl. Steam Pump Co., 1504 First Natl. Bank Bldg., and P. O. Box 639; also, 453 Riddle Rd., Cincinnati, O.
- GALE, Horace B. (1886), Ch. Engr., Simplex Electric Heating Co., Cambridge, and *for mail*, Natick, Mass.
- GALLAGHER, Robert Thomas (1906), Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co., and *for mail*, 12 Huntington Ave., Worcester, Mass.
- GALLOUPE, Francis E. (1880), Mech. Engr., 335 Old South Bldg., Boston, and 69 Puritan Rd., Swampscott, Mass.
- GALLOWAY, Charles Douglas (1913), Mgr. Storage Battery Plant, The Witherbee Igniter Co., Springfield, Mass.
- GALLOWAY, Thomas (1912), Mech. Engr., 18 Wendell St., Battle Creek, Mich.
- GALLUP, David L. (1910), Cons. Auto. Engr., Prof. Gas Engrg., Worcester Poly. Inst., and 12 Shaffner St., Worcester, Mass.
- GAMBLE, William John (Junior, 1911), Mech. Engr., Vulcan Steam Forging Co., 247-253 Rano St., and 279 Hoyt St., Buffalo, N. Y.
- GAMMETER, Harry Christian (1913), Mech. Expt., The Am. Multigraph Co., Cleveland, O.
- GAMON, Ernest E. (Junior, 1904), V. P. and Genl. Mgr., Gamon Meter Co., 282 South St., and *for mail*, 100 Murray St., Newark, N. J.
- GAMPER, Herman (1900), 478 W. 5th Ave., Columbus, O.
- GANNON, Thomas Joseph (1913), Mech. Engr., Dept. of Water Supply, Gas and Elec., New York, and *for mail*, 69 Monroe St., Brooklyn, N. Y.
- GANTT, Henry L. (1888), Manager, 1908-1911; Vice-President, 1913-1915; Cons. Engr., 2915 Singer Bldg., New York, N. Y., res., 18 Hoburg Pl., Montclair, N. J.
- GANZ, Albert Frederick (1910), Prof. Elec. Engrg., Stevens Inst. of Tech., Hoboken, N. J.
- GARBETT, Benjamin C. (1912), Secy., Twin City Mch. Co., and *for mail*, 416 Oak St., S. E., Minneapolis, Minn.
- GARCELON, Charles A., Jr. (Junior, 1902), North Lovell, Oxford Co., Me.
- GARDINER, Andrew J., Jr. (1906), Mech. Engr., 312 Central Ave., Fredonia, N. Y.
- GARDINER, Walter B. (1913), Production Engr., 418 W. 11th St., Erie, Pa.
- GARDNER, G. Clinton, Jr. (1903), Asst. Engr. M. P., The Pa. R. R. Co., Buffalo, N. Y.
- GARDNER, Henry (1904; 1913), Supvr. Apprentices, N. Y. C. & H. R. R. Co., 2850 Grand Central Terminal, New York, and 102 Mamaroneck Ave., White Plains, N. Y.
- GARDNER, Horace C. (1904), Member of Firm, Gardner & Lindberg, Marquette Bldg., and 4711 Greenwood Ave., Chicago, Ill.

- GARDNER, Kirtland C. (Associate, 1909), Sales Engr., United Engrg. & Fdy. Co., 2313 Farmers Bank Bldg., and 6727 Thomas Blvd., Pittsburgh, Pa.
- GARDNER, Thomas M. (1903), Cons. Engr., Anna, Ill.
- GARFIELD, Alexander S. (1907), Ch. Engr., Cie. Française pour l'Exploitation des Procédés Thomson-Houston, and *for mail*, 67 Ave. de Malakoff, Paris, France.
- GARFIELD, Lyman Morse (Associate, 1893), Supt., Miami Powder Co., and *for mail*, 428 N. Galloway St., Xenia, O.
- GARLAND, Claude Mallory (1906; 1912), Mech. Engr., Woodmansee & Davidson, 1048 First Natl. Bank Bldg., and *for mail*, 1049 Ardmore Ave., Chicago, Ill.
- GARRAHAN, F. B. (Junior 1911), Engr. Acctg. Dept., Internatl. Nickel Co., New York, N. Y., and 63 W. South St., Wilkes-Barre, Pa.
- GARRATT, Ernest Albert (1907), Ch. Asst., Jacobs & Barringer, 78 Gracechurch St., London, England.
- GARRED, Ulysses A. (1904; 1912), Ch. Engr., Anaconda Copper Min. Co., Anaconda, Mont.
- GARRETT, John Antony (Junior, 1907), Gas and Mech. Engr., Fairbanks, Morse & Co., 423-429 E. 3d St., Los Angeles, Cal.
- GARRIGUES, Edmund (1900), Ch. Engr., The Russell & Co., and *for mail*, 223 S. Cedar St., Massillon, O.
- GARTLEY, Alonzo (1911), Cons. Engr., C. Brewer & Co., Ltd., Honolulu, Hawaii.
- GARVIN, George K. (1909), Pres., Garvin Mch. Co., Spring and Varick Sts., New York, N. Y.
- GAST, George Fred (Junior, 1910), Supt. of Constr., Atlantic Gas & Electric Co., and *for mail*, care of Binghamton Light, Heat & Power Co., Binghamton N. Y.
- GATELY, Philip J. (Associate, 1904), Ch. Engr., R. Webber's Packing House & Cold Storage Plant, 2191 Third Ave., and *for mail*, 125 E. 54th St., New York, N. Y.
- GATELY, William Aloysius (Junior, 1912), Eng. Dept., De La Vergne Mch. Co., and *for mail*, 125 E. 54th St. New York, N. Y.
- GATES, J. George (Junior, 1911), Engrg. Dept., E. W. Bliss Co., and *for mail*, 45 Furman Ave., Brooklyn, N. Y.
- GATES, Philetus W. (1902), Vice-President, 1906-1908; Pres., Hanna Engrg. Wks., 2059 Elston Ave., Chicago, Ill.
- GATES, Thayer P. (1906; 1913), Glenlyon Dye Wks., and *for mail*, Orchard Ave., Saylesville, R. I.
- GATH, Andrew L. (Associate, 1906), Pres. and Treas., Gath Mch. Tool Co., 61 Terrace, and *for mail*, 68 Crescent Ave., Buffalo, N. Y.
- GAUSE, Fred Taylor (1893), Lubricating Oil, Foreign Dept., Stand. Oil Co. of N. Y., 26 Broadway, New York, N. Y.
- GAUTHIER, George J. (1912), Engr. in Charge Constr., The Trinidad Elec. Transmission Ry. & Gas Co., and *for mail*, P. O. Box 770, Trinidad, Colo.
- GAY, Frederick Waldo (1913), Mech. Engr., The J. G. White Engrg. Corp., and *for mail*, 310 Sansome St., San Francisco, Cal.

- GAY, Harry (1907; 1911), Equip. Engr., Stone & Webster Engrg. Corp., New Technology Bldgs., Charles River Rd., Cambridge, and 249 Crafts St., Newtonville, Mass.
- GAZZAM Joseph P. (1902), Life Member; 5027 Westminster Pl., St. Louis, Mo.
- GEBHARDT, George F. (1904), Prof. Mech. Engrg., Armour Inst. of Tech., and 5302 Blackstone Ave., Chicago, Ill.
- GEER, James H. (1884), Engr. of Constr., Cambria Steel Co., and *for mail*, 431 Somerset St., Johnstown, Pa.
- GEERLINGS, Henry John (1913), Asst. to Mech. Engr., Pfister & Vogel Leather Co., Milwaukee, and *for mail*, R. F. D. 13, Box 32, Wauwatosa, Wis.
- GEIER, Frederick August (Associate, 1900), Pres., The Cincinnati Milling Mch. Co., Oakley, and 2301 Grandview, Cincinnati, O.
- GENUNG, Nelson H. (1912), V. P. and N. Y. Mgr., Coatesville Boiler Wks., 30 Church St., New York, N. Y.
- GEORGE Jerome R. (1899), Ch. Engr., Morgan Constr. Co., 21 Lincoln St., and *for mail*, 6 Bowdoin St., Worcester, Mass.
- GERBER, Samuel Robert (Junior, 1913), Task-Setter, Remington Typewriter Co., and *for mail*, 64 Fourth St., Ilion, N. Y.
- GERDAU, Barthold (1911), Ch. Engr. and Managing Dir., Haniel & Lueg, and *for mail*, Neanderstr. 13, Düsseldorf, Germany.
- GERHARD, Dr. William Paul (1904), Cons. Sanitary Expt. and Hyd. Engr., Rm. 1213, 42d St. Bldg., 42d St. and Madison Ave., New York, and Scarsdale, N. Y.
- GERMAIN, Joseph Napoleon (1911), Mech. Engr., Pangborn Corp., Hagerstown, Md.
- GERNANDT Waldo George (Junior, 1910), Cons. Engr., cor. Bates and Atwater Sts., and *for mail*, 761 Helen Ave., Detroit, Mich.
- GERNER, George Charles (Junior, 1913), Instr. Testing Materials, S. S. S., Yale Univ., 724 Mason Lab., and *for mail*, 12 Nicoll St. New Haven, Conn.
- GERRISH, William H. (1901), Ch. Smoke Insp., Bd. of Gas and Elec. Light Commrs., Commonwealth of Mass., 603 Ford Bldg., 15 Ashburton Pl., Boston, and *for mail*, 173 Main St., Malden, Mass.
- GERRY, Arthur Peterson (Junior, 1910), Mech. Engr., Laconia Car Co., and *for mail*, 766 Main St., Laconia, N. H.
- GERRY, Edward Murray (1912), Commer. Elec. Engr., Allis-Chalmers Co., and 1718 Wells St., Milwaukee, Wis.
- GERSONI, Louis Jacob (Associate-Member, 1913), Mech. Engr., Dept. of Water Supply, Gas and Elec., 13 Park Row, New York, and *for mail*, 711 Sterling Pl., Brooklyn, N. Y.
- GETTS, Frank E. (1913), Dist. Sales Mgr., Alberger Pump & Condenser Co., Rm. 1401, 115 W. Monroe St., and Hotel Warner, Chicago, Ill.
- GFRÖRER, Albert H. (Junior, 1913), Storage Battery Truck Engr., C. W. Hunt Co., Inc., Box 145, West New Brighton, and 42 Anderson Ave., Port Richmond, S. I., N. Y.
- GIBBS, George (1890), Cons. Engr., Gibbs & Hill, Cons. Engrs., Pennsylvania Sta., New York, N. Y.

- GIBNEY, James W. (1909), Mgr., Taylor Iron Wks., 575 Howard St., and *for mail*, 416 Woodward Ave., Buffalo, N. Y.
- GIBSON, Arthur (1892), Cons. Engr., P. O. Box 35, Nome, Alaska.
- GIBSON, Charles D. (1913), Sales Mgr., The Hamilton Mch. Tool Co., 547 Washington Blvd., Chicago, Ill.
- GIBSON, Frederick M. (1913), Ch. Engr. Stand. Refinery, The Am. Sugar Refining Co., 47 Granite St., South Boston, and 1926 Beacon St., Brookline, Mass.
- GIBSON, George Herbert (1900; Associate, 1907), Cons. Engr., Tribune Bldg., New York, N. Y., and 70 Oakwood Ave., Upper Montclair, N. J.
- GIBSON, Jas. Edwin (1896; 1901; 1910), Prin. Asst. Engr., Am. Pipe & Constr. Co., 112 N. Broad St., Philadelphia, and 419 Yale Ave., Swarthmore, Del. Co., Pa.
- GIELE, Herman Frederick (1913), Supt. of Fdy., The Grabler Mfg. Co. and *for mail*, 1419 E. 109th St., Cleveland, O.
- GIELE, Walter S. (Junior, 1908), Harrison Safety Boiler Wks., Philadelphia, Pa.
- GIFFORD, Albert J. (Junior, 1903), Partner, Leland-Gifford Co., and *for mail*, 9 King St., Worcester, Mass.
- GIFFORD, Byron T. (Junior, 1909), Ch. Engr., Am. Public Utilities Co., Grand Rapids, Mich.
- GIFFORD, George Nathan (Junior, 1913), Asst. Mech. Engr., Am. Ptg. Co., and 1160 Robeson St., Fall River, Mass.
- GIFFORD, Robt. L. (1902), Pres., Illinois Engrg. Co., Monadnock Bldg., Chicago, Ill., and Oak Knoll, Pasadena, Cal.
- GILBERT, E. E. (1911), Sales Mgr. Turbine Dept., Genl. Elec. Co., and 223 Union St., Schenectady, N. Y.
- GILBERT, Lloyd Damond (1912), Oswego, Ore.
- GILBRETH, Frank B. (1903), Cons. Engr., Frank B. Gilbreth, Inc., 30 Church St., New York, N. Y., and *for mail*, 77 Brown St., Providence, R. I.
- GILDEHAUS, Richard, Jr. (Junior, 1909), Supvg. Engr. in Tex., Anheuser-Busch Co. of St. Louis, Mo., 722 Busch Bldg., Dallas, Tex.
- GILES, C. E. (1891), Agt., Am. & British Mfg. Co., and *for mail*, 44 Halsey St., Providence, R. I.
- GILL, Author Hendrix (1913), Supt. Mech. Dept., Perth Amboy Plant, Am. Smelting & Refining Co., and *for mail*, 228 High St., Perth Amboy, N. J.
- GILL, Lester W. (1908), Prof. Elec. Engrg., Queen's Univ., Kingston, Ont., Canada.
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- GILLETT, Lowry (Junior, 1904), Steam Engr., Genl. Chem. Co., 25 Broad St., and 14 W. 69th St., New York, N. Y.

- GILLETTE, Halbert Powers (1910), Editor-in-Chief, Engineering and Contracting, 608 S. Dearborn St., Chicago, Ill., and Germantown, Pa.
- GILLIES, Wm. F. (1905; 1913), N. Y. Branch Mgr., A. S. Cameron Steam Pump Wks., 11 Broadway, New York, N. Y., and *for mail*, 138 Chilton St., Elizabeth, N. J.
- GILLIS, Albert R. (1891), 307 Emerson Ave., Syracuse, N. Y.
- GILLIS, H. A. (1888), Manager, 1901-1904; Mech. Engr., Home Life Bldg., Washington, D. C.
- GILMAN, Francis L. (1908), Asst. Genl. Supt., West. Elec. Co., Hawthorne Sta., Chicago, and *for mail*, 610 N. Euclid Ave., Oak Park, Ill.
- GILMAN, Franklin W. (Junior, 1913), Sanford Riley Stoker Co., 947 Slater Bldg., Worcester, Mass.
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- GILMORE, George Parley (1909), Mech. Engr., Am. Ptg. Co., and *for mail*, 109 Barre St., Fall River, Mass.
- GILMOUR, George (1909), Ch. Engr., Travelers Ins. Co., Hartford, Conn., and 170 Stratford Rd., Flatbush, Brooklyn, N. Y.
- GILSON, Harry W. (Junior, 1909), Engr., Blaisdell-Canady Co., 90 West St., New York, N. Y., and *for mail*, 96 Duncan Ave., Jersey City, N. J.
- GINGRICH, Charles Sumner (Junior, 1900), The Cincinnati Milling Mch. Co., Cincinnati, and *for mail*, 34 Navarre Bldg., Walnut Hills, Cincinnati, O.
- GIRVIN, Chas. J. (1894; 1905), Supt., Edge Moor Iron Co., Edge Moor, Del.
- GIVAN, Albert (1913), City Engr., City of Sacramento, City Hall, Sacramento, Cal.
- GLADDEN, Charles S. (Junior, 1901), Asst. Engr., Chas. O. Lenz, Rm. 617, 71 Broadway, New York, and Plandome, L. I., N. Y.
- GLADDING, Wanton Martin (1907), Mech. Supt., Morse Twist Drill & Mch. Co., 170 Pleasant St., and 338 Pleasant St., New Bedford, Mass.
- GLADFELTER, Herbert S. (Junior, 1910), Junior Engr., U. S. Engr. Office, and *for mail*, 1060 Roland St., Memphis, Tenn.
- GLANVILLE, Jas. Gundry (1896; 1905), Supt., Isle Royale Stamp Mill, Houghton, Mich.
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- GLASGOW, Arthur Graham (1892), Life Member; Chairman, Humphreys & Glasgow, Ltd., 36-38 Victoria St., London, S. W., England, and Richmond, Va.
- GLASGOW, Carr L. (1904; 1913), Fairbanks, Morse & Co., 30 Church St., New York, N. Y.
- GLASS, William Clement (Junior, 1912), United Ptg. Mchy. Co., Jamaica Plain, Mass.
- GLEASON, Gilbert Howe (1906; 1912), Dodge Mfg. Co., 137 Purchase St., Boston, and *for mail*, 9 Central Ave., Newtonville, Mass.

- GLEASON, William (1897), Pres., Gleason Wks., Rochester, N. Y.
- GLYNN, Frank Lawrence (Associate-Member, 1913), Dir. Trade Education, Public Schs., and *for mail*, 446 Edgewood Ave., New Haven, Conn.
- GNADE, Edward R. (1895; 1905), Wks. Mgr., Oil Well Supply Co., Oil City, Pa.
- GOCHER, John W. (1909), Cons. Engr., Cambria Steel Co., and *for mail*, 404 Cypress Ave., Johnstown, Pa.
- GODDARD, Archibald N. (1913), Supt., Union Twist Drill Co., and *for mail*, 534 School St., Athol, Mass.
- GODDARD, Arthur L. (1903), Supt. of Shops, Univ. of Wis., and *for mail*, 1717 Monroe St., Madison, Wis.
- GODFREY, Eli S. (1891), Tannersville, N. Y.
- GODFREY, Hollis (1912), Pres., Drexel Inst., and *for mail*, 1906 Sansom St., Philadelphia, Pa.
- GOEBLER, Charles (1913), Asst. Genl. Supt., The De Laval Separator Co., and *for mail*, 49 Corlies Ave., Poughkeepsie, N. Y.
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- GOETZ, Fred W. (Associate, 1909), V. P., Goetz Co., Clybourn Ave. and Willow St., and *for mail*, 5960 Kenmore Ave., Chicago, Ill.
- GOETZ, Victor J. (Junior, 1893), Refrig. Engr. and Contr., Rep., Brunswick Refrig. Co., 345 N. 12th St., and 5128 N. Carlisle St., Philadelphia, Pa.
- GOETZE, Frederick A. (1895; 1900), Dean Sch. of Mines, Engrg. and Chemistry, Columbia Univ., and 601 W. 110th St., New York, N. Y.
- GOING, Charles Buxton (1911), Editor, The Engineering Magazine, 140 Nassau St., New York, N. Y.
- GOLDBERG, Monroe S. (Junior, 1913), Pres., No. Waterproofing Co., 1123 Broadway, New York, and 29 Maple Court, Flatbush, Brooklyn, N. Y.
- GOLDEN, M. J. (1892), Prof. Practical Mechanics, Purdue Univ., Lafayette, Ind.
- GOLDIE, Alexander R. (Junior, 1902), Mgr., Goldie & McCulloch Co., Ltd., Galt, Ont., Canada.
- GOLDINGHAM, Arthur Hugh (1907), De La Vergne Mch. Co., foot of E. 138th St., and *for mail*, 552 Riverside Drive, New York, N. Y.
- GOLDSCHMIDT, Otto E. (1912), Cons. Engr., 30 W. 38th St., New York, N. Y.
- GOLDSMITH, Clarence (1911), Asst. Engr. in Charge High Pressure Fire Service, Pub. Wks. Dept., City of Boston, 1 City Sq., Charlestown, Mass.
- GOLDSMITH, Nathaniel Oliver (1900), Genl. Mgr., Weir Frog Co., East Norwood, Cincinnati, and *for mail*, 2319 Monroe Ave., Norwood, O.

- GOLDTHWAITE, Harry W. (1913), Ch. Draftsman, Edison Portland Cement Co., Stewartsville, N. J., and *for mail*, 705 Ferry St., Easton, Pa.
- GOODENOUGH, Walter (1912), Mgr. Keokuk Div., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
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- GOODRICH, Robert R. (1903), Columbia Univ., New York, N. Y.
- GOODWIN, Frank (1908), care of Thos. Cooke & Sons, Ludgate, Circus, London, England.
- GORDON, Albert Anderson, Jr. (1911), Supt., Crompton & Knowles Loom Wks., Worcester, Mass.
- GORDON, Henry Decatur (1896), 80 White St., New York, N. Y., and 15a Evergreen Pl., East Orange, N. J.
- GORDON, Rea M. (1902; 1908; 1912), Asst. Engr. Tests, Solvay Process Co., and *for mail*, 325 Gordon Ave., Syracuse, N. Y.
- GORDON, William (1912), Mgr., Thompson-Starrett Co., 660 First Ave., New York, and Richmond Hill Drive, Richmond Hill, L. I., N. Y.
- GORE, Warren W. (1908), Ch. Engr., Fuller & Johnson Mfg. Co., and *for mail*, 416 N. Patterson St., Madison, Wis.
- GORHAM, William Reagan (Junior, 1912), Supt., Gorham Engrg. Co., Oakland, Cal.
- GORTON, J. C. (1897; 1899), Cons. Engr., 210 Olive St., Warren, O.
- GOSS, Edward O. (1889; 1906), Genl Mgr., Scovill Mfg. Co., and *for mail*, 90 Pine St., Waterbury, Conn.
- GOSS, Harry Terboss (1907), Cons. Mech. Engr., Goss & Bryce, 76 William St., New York, N. Y., and 78 Chestnut St., Rutherford, N. J.
- GOSS, W. F. M. (1886), Manager, 1900-1903; Vice-President, 1909-1911; President, 1913; Life Member; Dean College of Engrg., and Dir. Engrg. Exper. Sta., Univ. of Ill., Urbana, and *for mail*, 1333 Peoples Gas Bldg., Chicago, Ill.
- GOTTFRIED, Carl M. (Associate, 1913), Genl. Mgr. and Secy., Gottfried Brewing Co., 337 Alexander St., and 40 Cedar St., Chicago, Ill.
- GOUBERT, Auguste A. (1880), 90 West St., New York, N. Y., and Englewood, N. J.
- GOULD, Norman J. (1900; 1908), Pres., Goulds Mfg. Co., and 28 Cayuga St., Seneca Falls, N. Y.
- GOULD, Webster V. (1887), N. Y. Rep., Jones & Lamson Mch. Co. of Springfield, Vt., and *for mail*, 51 S. 10th Ave., Mt. Vernon, N. Y.
- GOWIE, William (1905), 157 Warren Ave., Youngstown, O.
- GRABURN, Arthur Lynne (1913), Mech. Engr., Canadian No. Ry., and *for mail*, 34 Foxbar Rd., Toronto, Ont., Canada.
- GRAF, John C. (Junior, 1913), Designer, Link Belt Co., Nicetown, Philadelphia, and *for mail*, 3730 N. 10th St., Philadelphia, Pa.

- GRAF, Samuel Herman (Junior, 1912), Assoc. Prof. Exper. Engrg., Ore. Agri. College, P. O. Box 271, and 1042 S. 10th St., Corvallis, Ore.
- GRAHAM, William Harvey (1911), Mech. Supt., N. S. Steel & Coal Co., Ltd., and Beech St., Sydney Mines, N. S., Canada.
- GRANT, Albert Weston, Jr. (Junior, 1913), Asst. to Engr. of Constr., Philadelphia Gas Wks., United Gas Improvement Co., and *for mail*, 2316 S. 21st St., Philadelphia, Pa.
- GRANT, Charles C. (Junior, 1910), Asst. Mech. Engr., The Good-year Tire & Rubber Co., and *for mail*, 1515 E. Market St., Akron, O.
- GRAUTEN, Sylvester Henry (Associate-Member, 1913), Testing Engr., Isthmian Canal Com., Gatun, Canal Zone.
- GRAVER, Alexander M. (Junior, 1908), Mech. Engr., Wm. Graver Tank Wks., East Chicago, Ind., and 436 W. 72d St., Chicago, Ill.
- GRAVES, James Madison (Associate, 1905), Supt. Power Stas., Allegheny County Light Co., 435 Sixth Ave., Pittsburgh, Pa.
- GRAY, John Lamont (Associate, 1904), Gray Bros., and *for mail*, care of Ardlamont, 9 Esplanade, Williamstown, Melbourne, Victoria, Australia.
- GRAY, John Lathrop (1901; 1905), Asst. Genl. Supt., Tide Water Oil Co., E. 22d St., Bayonne, and 35 De Witt Rd., Elizabeth, N. J.
- GRAY, John Wilson (Junior, 1895), Asst. to Genl. Mgr., Newport News Shipbuilding & Dry Dock Co., 407 Harrison Bldg., Philadelphia, Pa.
- GRAY, Niel, Jr. (1903), Prop., Oswego Mch. Wks., and 132 W. 5th St., Oswego, N. Y.
- GRAY, William Emery (1907), Genl. Sales Mgr., Enameled Pipe & Engrg. Co., and *for mail*, 220 Washington Ave., Elyria, O.
- GREEN, Chas. Henry (Junior, 1905), Cons. Engr., 525 Paulsen Bldg., Spokane, Wash.
- GREEN, Frederick William (1913), Genl. Mgr., La. & Ark. Ry. Co., P. O. Box 345, Stamps, Ark.
- GREEN, James B. (1912), Ch. Draftsman, Lucas Mch. Tool Co., and *for mail*, 10,608 Kimberly Ave., N. E., Cleveland, O.
- GREEN, John Stevenson (Junior, 1909), Supt., Am. Rd. Mchy. Co., and *for mail*, 512 Magnolia St., Kennett Square, Pa.
- GREEN, Samuel M. (1890), Cons. Engr., Samuel M. Green Co., Stearns Bldg., 293 Bridge St., and 325 Long Hill St., Springfield, Mass.
- GREEN, Thomas Wilbraham (1902), Mech. Engr., 2711 N. Park Ave., Philadelphia, Pa.
- GREEN, Wm. O. (1891), Member of Firm, Ogden, Sheldon & Co., 192 N. Clark St., and 1211 Astor St., Chicago, Ill.
- GREENE, Arthur M., Jr. (1895; 1903), Manager, 1913-1916; Prof. Mech. Engrg., Rensselaer Poly. Inst., and "Sunnyslope," Spring Ave., opp. Myrtle Ave., Troy, N. Y.
- GREENE, Augustine E. (1909), Cons. Mill Engr., 847 Main St., Hartford, Conn.

- GREENE, Edwin Farnham (1913), Pres., Lockwood, Greene & Co., 60 Federal St., Boston, Mass.
- GREENE, Ernest Woodruff (Junior, 1912), Sales Engr., Alberger Pump & Condenser Co., 140 Cedar St., New York, N. Y., and *for mail*, Nutley, N. J.
- GREENE, Harris Ray (Associate, 1907), N. Y. Sales Mgr., Merritt & Co., 50 Church St., New York, N. Y., and 1406 Chapel St., New Haven, Conn.
- GREENE, Isaac Chase (1882; 1886), Life Member; present address unknown.
- GREENE, Levi Rawson (1893), Cons. Engr., Walworth Mfg. Co., 132 Federal St., Boston, and *for mail*, 32 Linnean St., Cambridge, Mass.
- GREENIDGE, Charles Austin (1912), Elec. Ltg. Mgr., J. G. White & Co., Inc., 43 Exchange Pl., New York, N. Y.
- GREENLEAF, Geo. Edward (1892), Mech. Engr., Niles-Bement-Pond Co., Plainfield, N. J.
- GREENMAN, Edwin G. (1907; 1913), Engr. Charge Drafting Dept., The Lunkenheimer Co., and *for mail*, 1764 Fairmount Ave., Cincinnati, O.
- GREENSMITH, Jas. E. (1892), Genl. Supt., Mason Mch. Wks., and *for express*, 192 Winthrop St., Taunton, Mass.
- GREENWALL, Walter L. (1911), Ch. Draftsman, Nordberg Mfg. Co., and *for mail*, 534 Logan Ave., Milwaukee, Wis.
- GREGER, Henrik (Junior, 1904), Asst. Ch. Engr., Epping Carpenter Pump Co., Pittsburgh, Pa.
- GREGORY, William B. (1895; 1903), Prof. Exper. Engrg., Tulane Univ., and Irrigation Engr., U. S. Dept. of Agri., 630 Pine St., New Orleans, La.
- GREIST, Percy Raymond (1913), Pres. and Genl. Mgr., The Greist Mfg. Co., and 325 McKinley Ave., New Haven, Conn.
- GRELLE, Charles Edward (Junior, 1900), Pres. and Mgr., Independent Fdy. Co., 23d and York Sts., and 908 Overton St., Portland, Ore.
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- GRESSLY, Oscar Emil (1912), Ch. Engr., Aliquippa Wks., Jones & Laughlin Steel Co., Woodlawn, Pa.
- GRETH, J. C. Wm. (1908), Mgr. Water Purifying Dept., Wm. B. Scaife & Sons Co., and *for mail*, 221 First Ave., Pittsburgh, Pa.
- GREUL, W. Herman (1907), In Charge of Price Bureau, Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St., and 630 W. 135th St., New York, N. Y.
- GRIDLEY, George O. (1902), V. P. and Genl. Mgr., Windsor Mch. Co., Windsor, Vt.
- GRIEPE, A. W. H. (1908), V. P. and Genl. Mgr., Turbo Co., Suite 401, 1465 Broadway, and 707 Prospect Ave., New York, N. Y.
- GRIESS, Justin, Jr. (1898; Associate, 1902), Second V. P., The McMyler Interstate Co., Cleveland, and *for mail*, Bedford, O.

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- GRIFFIN, Charles Lewis (1893), Asst. Engr., The Solvay Process Co., and *for mail*, 207 Summit Ave., Syracuse, N. Y.
- GRIFFIN, Michael E. (1909), Selling Engr., The Hooven, Owens, Rentschler Co., and *for mail*, 815 Campbell Ave., Hamilton, O.
- GRIFFITHS, Leonard L. (1905; 1908), Genl. Supt., Clinchfield Portland Cement Corp., Kingsport, and 905 Pennsylvania Ave., Bristol, Tenn.
- GRIMM, Paul H. (1890), Ch. Engr., Arbuckle Bros., foot of Jay St., Brooklyn, and Glen Cove, L. I., N. Y.
- GRIMSHAW, Frederick G. (Junior, 1901), Asst. Engr. M. P., Pa. R. R., and *for mail*, 5026 Friendship Ave., Pittsburgh, Pa.
- GRISSINGER, Elwood (1912), Cons. Elec. and Mech. Engr., 924 White Bldg., and 293 Lexington Ave., Buffalo, N. Y.
- GRISWOLD, Harry J. (Associate, 1913), Mgr., Dominion Engrg. & Inspc. Co., 318 Lagauchetiere St., W., Montreal, and 84 Percival Ave., Montreal West, Que., Canada.
- GROENE, William F. (1908), Ch. Draftsman and Designer, R. K. LeBlond Mch. Tool Co., 4609-4621 Eastern Ave., and 1311 Delta Ave., Cincinnati, O.
- GROHMANN, Carl L. (1898), Ch. Engr., Pratt & Whitney Co., and *for mail*, 268 N. Oxford St., Hartford, Conn.
- GROSSMANN, Albert (1903), Cons. Engr., 112 Marlborough Rd., Brooklyn, N. Y.
- GROVER, Charles Lowell (Junior, 1913), Designing Draftsman Ordnance Dept., Bethlehem Steel Co., South Bethlehem, and *for mail*, R. F. D. 1, Allentown, Pa.
- GROVER, Marcus A. (1903; 1909), Asst. Mech. Engr., Tenn. Coal, Iron & R. R. Co., Muscoda Mines, Bessemer, and *for mail*, P. O. Box 590, Birmingham, Ala.
- GRUNWELL, Paul C. (Associate-Member, 1913), U. S. Junior Engr., U. S. Engrg. Dept., Box 72, Custom House, and Apollo Club, 420 W. Walnut St., Louisville, Ky.
- GRUPE, William Frederick (Junior, 1913), Supt., Funk Mch. Co., 1401 Clinton St., Hoboken, and *for mail*, 27 Pierce Ave., Jersey City, N. J.
- GUBELMAN, Frederick J. (Associate, 1895), Pres., Regina Co., and East. Constr. Co., 47 W. 34th St., New York, N. Y., and Woodlawn Ave., Englewood, N. J.
- GUCKEL, Charles Henry (Junior, 1901), Genl. Mgr., Springfield Gas & Elec. Co., and Springfield Traction Co., 2 Woodruff Bldg., Springfield, Mo.
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- GUISE, Hiram Barnes (1912), Ch. Cons. Engr., Rubber Regenerating Co., Naugatuck, and 365 N. Main St., Union City, Conn.
- GULDIN, Olaf N. (1905), Pres. and Genl. Mgr., The West. Gas Constr. Co., and 2306 Fairfield Ave., Fort Wayne, Ind.

- GULOWSEN, G. A. (1897), Draftsman, The Babcock & Wilcox Co., and *for mail*, 26 E. 3d St., Bayonne, N. J.; also, Huguenot Park, S. I., N. Y.
- GUMP, Walter B. (Junior, 1902), Mech. and Elec. Engr., 1655 Seventh Ave., Los Angeles, Cal.
- GUNAGAN, Richard Henry (1911), Asst. Supt. Inspc. Dept., The Fidelity & Casualty Co. of N. Y., 92 Liberty St., New York, and *for mail*, 1463 Dean St., Brooklyn, N. Y.
- GUNN, Charles M. (1911), Pres. and Mgr., Columbia Steel Co., 503 Market St., San Francisco, and Sausalito, Cal.
- GUNN, Thomas McCheyne (1911), Charge Designing Dept., Elec. Boat Co., and *for mail*, Latham St., Groton, Conn.
- GUNTHER, Charles O. (1900; Associate, 1905), Prof. Mathematics, Stevens Inst. of Tech., and *for mail*, P. O. Box 77, Hoboken, N. J.; also, Cons. Engr., Alphons-Custodis Chimney Constr. Co., 95 Nassau St., New York, N. Y.
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- GUY, Albert Emile (1905), Mech. Engr., Providence Engrg. Wks., and 146 Fourth St., Providence, R. I.
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- HADEN, Harry Y. (Associate, 1906), Pres., Turbine Equip. Co., 30 Church St., New York, N. Y.
- HADFIELD, Sir Robert Abbott, F. R. S. (1907), Chairman and Managing Dir., Hadfield Co., Sheffield, and *for mail*, 22 Carlton House Terrace, London, S. W., England.
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- HAGAR, Arthur Percy (1907; 1912), Engr. Marine Dept., Safety Car Htg. & Ltg. Co., 206 Erie St., Jersey City, and *for mail*, 716 Clifton Ave., Newark, N. J.
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- HAGMAN, W. J. (1901), Genl. Mgr., Bement Miles Wks., 21st and Callowhill Sts., and The Powelton, Sec. F, Philadelphia, Pa.
- HAGSTROM, Harry O. (Junior, 1913), Engr., Elev. Supply & Repair Co., 105 W. 40th St., New York, N. Y.
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- HAINES, H. S. (1893), Manager, 1896-1899; Woodview, Silverdale Rd., Eastbourne, England.
- HAINES, Philip G. (Junior, 1913), 301 Wayne St., Lockland, O.
- HALDEMAN, Paul Collins (Junior, 1906), M. M., Lukens Iron & Steel Co., and *for mail*, 536 Chestnut St., Coatesville, Pa.
- HALE, Herbert Carlton (1904), Dist. Mgr., Ridgway Dynamo & Eng. Co., 1405 Schofield Bldg., Cleveland, and 78 Taylor Rd., East Cleveland, O.
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- HALE, Robert Sever (1894; 1897; 1899), Edison Elec. Ill. Co., 39 Boylston St., and *for mail*, Tennis and Racquet Club, 939 Boylston St., Boston, Mass.
- HALL, Arthur Goodwin (1913), Ch. Smoke Inspr., City of Cincinnati, and *for mail*, 4266 Fergus St., Cincinnati, O.
- HALL, Carl Albe (Junior, 1911), Mech. Engr., Dir., Parker & Young Co., Lisbon, and *for mail*, Concord, N. H.
- HALL, Charles Anderson (Junior, 1912), Asst. to Mgr. Pump and Compressor Dept., The Mine & Smelter Supply Co., Denver, Colo.
- HALL, Dwight Kimball (Junior, 1910), Asst. Supt., Frank A. Hall & Sons, Southfields, and *for mail*, Goshen, N. Y.
- HALL, Frederick Arthur (1892; 1897), Mfrs.' Agt., 5 Beekman St., New York, N. Y., and *for mail*, 128 Ascension St., Passaic, N. J.
- HALL, Harris Forster (1911), Secy. and Treas., Safety Equip. Mfg. Co., Fisher Bldg., Chicago, and Chicago Heights, Ill.
- HALL, James Alexander (Junior, 1912), Instr. Mech. Engrg., Brown Univ., Providence, R. I.
- HALL, Morris A. (1905; Associate, 1906), Managing Editor, Motor Life, 337 W. 38th St., and *for mail*, 839 W. 179th St., New York, N. Y.
- HALL, Robert E. (1898; 1905), V. P. and Treas., The Goulds Mfg. Co. of N. E., 58 Pearl St., Boston, and 1558 Beacon St., Waban, Mass.

- HALL, Rodney D. (1902; 1908), Asst. Ch. Engr., Snow Steam Pump Wks., and *for mail*, 61 Anderson Pl., Buffalo, N. Y.
- HALL, Stephen S. (1912), Secy., The Pickering Governor Co., and 341 Main St., Portland, Conn.
- HALL, Walter Atwood (1911), Asst. to Mgr., Lynn Wks., Genl. Elec. Co., West Lynn, and *for mail*, 15 Hardy Rd., Swampscott, Mass.
- HALL, William Garvie (1913), Mgr., Catton, Neill & Co., Ltd., P. O. Box 324, Honolulu, Hawaii.
- HALL, Willis E. (1889), Cons. Engr., 44 Cedar St., New York, N. Y.
- HALLADAY, Harry F. (1903; 1913), Asst. Ch. Engr., N. Y. Air Brake Co., and *for mail*, 1134 Boyd St., Watertown, N. Y.
- HALLENBECK, George E. (1908), Genl. Supt., Baker Bros., Post St. and Westlake Ave., and 2403 Lawrence Ave., Toledo, O.
- HALLER, Winfield A. (1912), Genl. Supt. and Ch. Engr., Federal Light & Traction Co., 60 Broadway, New York, N. Y.
- HALLIDAY, William Reeder (1913), Asst. Prof. Mechanism and Mch. Design, Stevens Inst. of Tech., Hoboken, and 37 Early St., Morristown, N. J.
- HALLOCK, Homan Fitzgreene (Junior, 1910), Mech. Engr., The Diamond Match Co., and *for mail*, 65 W. 4th St., Oswego, N. Y.
- HALSEY, Frederick A. (1882), Editor Emeritus, American Machinist, 505 Pearl St., and *for mail*, 356 W. 120th St., New York, N. Y.
- HALSEY, James T. (1885), Mech. Engr., 1347 Noble St., Philadelphia, Pa.
- HALSEY, Ralph Wetmore (Junior, 1913), N. W. Halsey & Co., 49 Wall St., New York, N. Y.
- HAMERSTADT, William D. (Junior, 1907), Engr., The Rockwood Mfg. Co., and *for mail*, 1501 Central Ave., Indianapolis, Ind.
- HAMILTON, Alex. K. (1900; 1912), Pres., M. H. Treadwell Co. of Ill., 530 Commer. Natl. Bank Bldg., and 72 W. Adams St., Chicago, Ill.
- HAMILTON, Chester B., Jr. (Junior, 1909), Mgr., Hamilton Gear & Mch. Co., and *for mail*, 43 Madison Ave., Toronto, Ont. Canada.
- HAMILTON, Clinton A. (1908), Pres., Racine Mfg. Co., and *for mail*, 1742 College Ave., Racine, Wis.
- HAMILTON, Edward Waterman (Junior, 1905), Mech. Engr., Harvey Hubbell, Inc., and *for mail*, 99 Lenox Ave., Bridgeport, Conn.
- HAMILTON, James (1898), Pat. Lawyer, 31 Nassau St., New York, N. Y., and *for mail*, 80 Beech St., East Orange, N. J.
- HAMILTON, James V. (1893), Cons. Engr., 682 E. 5th St., Brooklyn, N. Y.
- HAMILTON, John Donald (Junior, 1913), Mech. Engr., Electro Metallurgical Co., Glen Ferris, W. Va.
- HAMILTON, Ralph B. (1907), Pres. and Genl. Mgr., The Packard Elec. Co., Ltd., and 15 Welland Ave., St. Catharines, Ont., Canada.

- HAMILTON, William B. (1912), Sales Engr., Hardie-Tynes Mfg. Co., and 1217 N. 29th St., Birmingham, Ala.
- HAMILTON, Wm. Juel (1905), Secy., Hendrick Mfg. Co., and 209 Anthracite Blk., Carbondale, Pa.
- HAMMER, Alfred E. (1884), Treas. and Genl. Mgr., Malleable Iron Fittings Co., Branford, Conn.
- HAMMER, Edwin Wesley (1913), Cons. Elec. and Mech. Engr., Pat. Expt. and Solicitor of Patents, 55 John St., New York, N. Y.
- HAMMETT, Hiram G. (1888), Hammett Mch. Wks., 476-482 Eighth St., Troy, N. Y.
- HAMMETT, Philip Melancthon (1910), Supt. M. P., Me. Central R. R. Co., and *for mail*, 238 St. John St., Portland, Me.
- HAMMOND, John Hays (1910), Cons. Engr., 71 Broadway, New York, N. Y.
- HAMMOND, Myram Hance (1911), Genl. Supt., Knickerbocker Portland Cement Co., Hudson, N. Y.
- HAMMOND, Richard (1890), Pres., Lake Erie Engrg. Wks., and *for mail*, 413 Porter Ave., Buffalo, N. Y.
- HAMNER, Chas. Sutherland (1901), Cons. Engr., 212 Fifth Ave., New York, N. Y.
- HAND, Francis Ludlum (1888), 1948 N. 18th St., Philadelphia, Pa.
- HAND, S. Ashton (1882), present address unknown.
- HANEY, James Briggs (Junior, 1905), Designer, Wheeling Mold & Fdy. Co., Wheeling, W. Va.
- HANKIN, John (1913), Pres., John Hankin & Bro., 550 W. 25th St., New York, N. Y., and 15 Carlton Pl., Passaic, N. J.
- HANKS, Henry Mansfield (1913), Supt. Inspc., Stand. Roller Bearing Co., 5001 Lancaster Ave., Philadelphia, and *for mail*, P. O. Box 937, Narberth, Pa.
- HANLEY, William Andrew (Associate-Member, 1913), M. M. and Ch. Engr., Eli Lilly & Co., Indianapolis, Ind.
- HANMER, Laurence Gardner (Junior, 1910), Secy., George D. Atwood Co., Inc., Singer Bldg., 149 Broadway, New York, N. Y.
- HANNAH, Frederick Augustus (1900; 1904), Efficiency Engr., Aeolian Hall, 33 W. 42d St., New York, N. Y.
- HANSELL, William H. (1908), Pres., Smith & Hansell, Inc., Philadelphia Iron Fdy., 1625-1635 N. 5th St., Philadelphia, and *for mail*, Merion, Pa.
- HANSEN, Thorvald H. C. (1905), Supt., Harrow Spring Co., and *for mail*, 622 Minor Ave., Kalamazoo, Mich.
- HANSON, Augustus (1886), Cons. and Constr. Engr., 1049 14th St., San Francisco, Cal.
- HANSON, B. M. W. (1900), V. P., Pratt & Whitney Co., and 122 Tremont St., Hartford, Conn.
- HANZLIK, Henry J. (1903; 1910), Mech. Engr., De Laval Steam Turbine Co., and *for mail*, 852 Carteret Ave., Trenton, N. J.
- HARDESTY, Frederick Sawyer (Associate, 1913), Cons. Engr., Home Life Bldg., Washington, D. C.

- HARDING, Adalbert (Junior, 1898), 50 Church St., New York, N. Y., and *for mail*, Summit, N. J.
- HARDING, Frank Welland (1896), Cons. Engr., Canadian Consld. Rubber Co., Ltd., Notre Dame St. and Papineau Ave., and 477 Lansdowne Ave., Montreal, Que., Canada.
- HARDING, James Morgan (Junior, 1911), Philadelphia Rep., De La Vergne Mch. Co., 380 Bourse Bldg., Philadelphia, Pa.
- HARDING, Louis Allen (1913), 1103 W. Illinois St., Urbana, Ill.
- HARDY, C. E. (Junior, 1902), Industrial Engr., Westinghouse Elec. & Mfg. Co., 165 Second St., San Francisco, Cal.
- HARDY, George F. (1895), Cons. Engr., Langdon Bldg., 309 Broadway, New York, and Cryders Point, Whitestone Landing, L. I., N. Y.
- HARDY, Norman G. (Junior, 1913), M. M. Smelter, Ariz. Copper Co., and *for mail*, Box 1358, Clifton, Ariz.
- HARE, Charles Robbins (1913), Supt., The Arrow Elec. Co., 103 Hawthorne St., and *for mail*, 21 S. Marshall St., Hartford, Conn.
- HARGRAVE, Russell William (Junior, 1899), Cons. Engr., Box 23, Menasha, Wis.
- HARGREAVES, Robert Cattle (Junior, 1910), 53 Rowena St., Detroit, Mich.
- HARLAN, O. K. (1904; 1911), care of Am.Soc.M.E., 29 W. 39th St., New York, N. Y., and 811 W. Oak St., Union City, Ind.
- HARLEMAN, Samuel Thomas (1913), Supt. Crucible Steel Dept., Bethlehem Steel Co., South Bethlehem, and *for mail*, 364 E. Market St., Bethlehem, Pa.
- HARLOW, Justin Edwards (1913), Mech. Engr., Ill. No. Utilities Co., 125 E. 1st St., and *for mail*, 806 E. 3d St., Dixon, Ill.
- HARMAN, John J. (1906; 1909; 1912), Mech. Engr., Harman Engrg. Co., 120 Fredonia Ave., and 808 Windom St., Peoria, Ill.
- HARMAN, William Henry (Associate, 1906), Mech. Engr., Camden Iron Wks., Camden, N. J.
- HARMAR, Josiah (1900; 1904), 66 Prospect St., Trenton, N. J.
- HARPER, John (1907), Ch. Draftsman, West. Elec. Co., Hawthorne Sta., Chicago, and 304 Eighth Ave., La Grange, Ill.
- HARPER, John Lyell (1906), Ch. Engr., Hyd. Power Co., and Cliff Elec. Dist. Co., Niagara Falls, and Lewiston, N. Y.
- HARRIES, Genl. George Herbert (1913), 311 W. Chestnut St., Louisville, Ky.
- HARRIMAN, Norman Follett (1904), Chem. and Engr. of Tests, Union Pacific Lab., and 3350 Harney St., Omaha, Neb.
- HARRINGTON, Harry Garfield (1900; 1906; 1907), 39 Pacific St., Newark, N. J.
- HARRINGTON, John Lyle (1903), Waddell & Harrington, Orear-Leslie Bldg., and 2927 Forest Ave., Kansas City, Mo.
- HARRINGTON, Joseph (1913), Advisory Engr., 924 Consumers Bldg., Chicago, and *for mail*, Riverside, Ill.
- HARRINGTON, Norman T. (1903), Wks. Mgr., Bucyrus Co., and 303 Madison Ave., Evansville, Ind.

- HARRINGTON, Wellesley Carl (Junior, 1913), Leveler, State Highway Com., 55 Lancaster St., Albany, and *for mail*, Weedsport, N. Y.
- HARRIS, Ford W. (1913), Cons. Engr., 1029 Higgins Bldg., and 978 S. Vermont Ave., Los Angeles, Cal.
- HARRIS, Grenville A. (1907), Ch. Engr., Takata & Co., 50 Church St., New York, N. Y., and *for mail*, 176 Stiles St., Elizabeth, N. J.
- HARRIS, Harry E. (1911), Genl. Supt., Tap and Die Plant, Wells Bros. Co., and *for mail*, 24 Orchard St., Greenfield, Mass.
- HARRIS, Job Frederic Wilson (1898), 21 Goethe St., Binghamton, N. Y.
- HARRIS, John J. (1901), Mech. Engr., Bd. of Ed., Administration Bldg., Washington Ave., and *for mail*, 207 Stephen Ave., Scranton, Pa.
- HARRIS, James Wilfrid (1905), Dir., Alfred Wiseman, Ltd., Birmingham, and *for mail*, Laburnums, Bilston, Staffordshire, England.
- HARRIS, Wm. Allison (1904), Mgr., Am. Sheet & Tin Plate Co., Roll & Mch. Wks., and 1338 N. Cleveland Ave., Canton, O.
- HARRIS, William John, Jr. (1913), Engrg. Salesman, Natl. Meter Co., and *for mail*, 3514 Lucas Ave., St. Louis, Mo.
- HARRISON, Harry (Junior, 1913), N. Y. Sales Mgr., Brunswick Refrigerating Co., Rm. 418, 30 Church St., and 611 W. 152d St., New York, N. Y.
- HARRISON, Henry Thomas (1912), Ch. Engr., Corrigan, McKinney & Co., and *for mail*, 7206 Linwood Ave., Cleveland, O.
- HARROLD, Frederick F. (1913), Tool Designer and Supvr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 532 Ninth Ave., Munhall, Pa.
- HART, Frederick (1905), Pres., Frederick Hart & Co., Inc., 837 Main St., and *for mail*, Lansing Ave., Poughkeepsie, N. Y.
- HART, Howard S. (1903), Pres., Hart & Cooley Co., New Britain, Conn.
- HART, Robert W. (Associate, 1909), 11 Glengarry, Winchester, Mass.
- HARTER, Isaac, Jr. (Associate, 1908), Supt., The Babcock & Wilcox Co., Bayonne, N. J., and Dongan Hills, S. I., N. Y.
- HARTFORD, Claude (Junior, 1912), Engr., N. Y. Steam Co., 140 Cedar St., New York, and *for mail*, 249 Marlborough Rd., Brooklyn, N. Y.
- HARTILL-LAW, A. (1906), Phoenix Fdy. and Eng. Wks., Spence St., Cairns, North Queensland, Australia.
- HARTLEY, Harry Dwight (Junior, 1910), Pioneer Pole & Shaft Co., Plqua, O.
- HARTMANN, Francis M. (1910), Prof. Elec. and Mech. Engrg., Cooper Union, and 289 W. 4th St., New York, N. Y.
- HARTNESS, James (1891), Manager, 1909-1912; Vice-President, 1912-1913; President, 1914; Life Member; Pres., Jones & Lamson Mch. Co., Springfield, Vt.
- HARTSHORNE, William Davis (1912), Mill Engr., 40 Pleasant St., Methuen, Mass.

- HARTWELL, Arthur Edward (1911; Associate-Member, 1913), Mech. Engr., Asst. Mgr. and Member Bd. of Dirs., Hartwell Iron Wks., P. O. Box 105, and *for mail*, 1209 Webster Ave., Houston, Tex.
- HARTWELL, Harry (1908), Asst. to V. P., Pearson Engrg. Corp., 115 Broadway, New York, N. Y.
- HARTWELL, Hiram B. (Junior, 1903), Ch. Draftsman, Crosby Steam Gage & Valve Co., Roland St., Charlestown, Boston, and *for mail*, 9 Townsend St., Waltham, Mass.
- HARVEY, Daniel Carroll (1912), Supt. of Inspec., The Fidelity & Casualty Co., 92 Liberty St., New York, N. Y.
- HARVEY, Minor (1908), Engr., Keystone-Hindley Gear Co., 704 Pennsylvania Bldg., Philadelphia, and *for mail*, 4217 Haverford Ave., West Philadelphia, Pa.
- HASKELL, Broderick (1903), Miller Park, Franklin, Pa.
- HASKELL, George O. (Junior, 1899), V. P., Fidelity Cotton Oil & Fertilizer Co., and 119 Sul Ross Ave., Houston, Tex.
- HASSAN, Robert D. (1903), Mech. Engr., Orofino Portland Cement Co., Orofino, Idaho, and *for mail*, Avenida Apts., Spokane, Wash.
- HATCH, Edwin Glentworth (1912; Associate-Member, 1913), Mgr., Clark Elec. & Mfg. Co., and Associated with Walter G. Clark, Consulting Work, 149 Broadway, New York, N. Y.
- HATHAWAY, H. K. (Associate, 1908), Cons. Engr., 7215 Cresheim Rd., Mt. Airy, Philadelphia, Pa.
- HATHEWAY, Philip M. (Junior, 1913), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and *for mail*, 259 St. Paul St., Brookline, Mass.
- HATMAN, Julius G. (Junior, 1911), Ch. Engr., Osborne Process Liquid Carbonic Co., 711 Am. Bank Bldg., Kansas City, Mo., and *for mail*, 607 Orville Ave., Kansas City, Kan.
- HAUGHTON, Frank A. (1903), Wks. Mgr., Remington Arms & Ammunition Co., Ilion, N. Y.
- HAVEN, George Bartholomew (1912), Assoc. Prof. Mech. Engrg., Mass. Inst. of Tech., Boston, and Needham, Mass.
- HAVEN, Harry M. (1904), Member of Firm, F. W. Dean, Inc., 53 State St., Boston, and 27 Lloyd St., Winchester, Mass.
- HAWES, Joseph Henry (1913), Instr. in Manual Arts., Dorchester High Sch., and *for mail*, 74 Bernard St., Dorchester Center, Mass.
- HAWKINS, Edgar Marvin (Junior, 1901), Genl. Mgr., M. D. Knowlton Co., 29-35 Elizabeth St., Rochester, and Auburn Ball Bearing Co., Auburn, and *for mail*, R. F. D. 2, Highland Ave., Brighton, N. Y.
- HAWKINS, Ernest Hubbard (Junior, 1912), Power Plant Engr., Allis-Chalmers Mfg. Co., 30 Church St., New York, N. Y., and 4 Carnegie Ave., East Orange, N. J.
- HAWKINS, George Walter (1913), Mgr. Tucson Office, Chas. C. Moore & Co. Engrs., Tucson, Ariz.
- HAWKINS, Wm. Clark (Junior, 1891), Managing Dir. and Secy., Dominion Power & Transmission Co., Ltd., and 347 Queen St., S., Hamilton, Ont., Canada.

- HAWKS, Arthur S. (1904; 1909), Box 20, Greenfield, Mass.
- HAWLEY, Wm. Parker (1903; Associate, 1910), Asst. Prof. Charge Mech. Drawing, Lewis Inst., Chicago, and 320 N. Ridgeland Ave., Oak Park, Ill.
- HAWN, Russell John (1913), Mgr., Va. Portland Cement Co., Fordwick, Va.
- HAWTHORNE, Hayden Thwing (Junior, 1911), Export Sales Dept., Stand. Oil Co. of N. Y., 26 Broadway, New York, N. Y., and *for mail*, 95 Valley Rd., Montclair, N. J.
- HAWTHORNE, Primm R. (1911), Asst. Supt., Nichols & Shepard Co., and *for mail*, Latta St., Battle Creek, Mich.
- HAYES, Frank H. (1906), N. E. Agency Mgr., Internatl. Steam Pump Co., 465 John Hancock Bldg., Boston, and *for mail*, 19 Beech St., Cambridge, Mass.
- HAYES, J. Howard (Junior, 1908), Mech. and Sales Engr., The Platt Iron Wks. Co., 94 Pearl St., Boston, and 17 Wyman St., West Medford, Mass.
- HAYES, William Parsons (1913), Supvr. of Bldgs., Consldd. Gas Co. of N. Y., 124 E. 15th St., New York, and 457 Lockwood St., Astoria, L. I., N. Y.
- HAYNES, Harris Hasbrouck (Junior, 1912), Tech. Service Dept., Packard Motor Car Co., and *for mail*, 1847 Jefferson Ave., Detroit, Mich.
- HAYS, John Coffee (1913), Cons. Engr. and Pres., Mt. Whitney Power & Elec. Co., Visalia, Cal.
- HAYWARD, Elmer L. (1902; 1906), V. P., Eagle Lumber Co., First Natl. Bank Bldg., and 220 College Ave., Davenport, Ia.
- HAYWARD, Fred. H. (1889), 96-98 Leadenhall St., London, E. C., England, and 126 Liberty St., New York, N. Y.
- HAYWARD, H. S. (1880), Cons. Engr. Floating Equip., Pa. R. R., Spring Lake, N. J.
- HAYWARD, Henry S., Jr. (1900; 1907), Mech. Engr., 30 Church St., and 32 W. 40th St., New York, N. Y.
- HAYWARD, Sterling F. (1903), Treas., Connelly Iron Sponge & Governor Co., 127 Duane St., New York, N. Y., and *for mail*, 8 Dana St., Cambridge, Mass.
- HAZARD, Vincent G. (1882), Life Member; Designer of Paper Mchy., The Pusey & Jones Co., and *for mail*, 1001 Park Pl., Wilmington, Del.
- HAZARD, William H. (1912), Mech. Engr. Exper. Dept., Internatl. Harvester Co., 1100 Harvester Bldg., and *for mail*, 4425 Magnolia Ave., Chicago, Ill.
- HAZELTON, Robert T. (Junior, 1909), Cincinnati Milling Mch. Co., Cincinnati, O.
- HAZELTON, William S. (1909), V. P. and Engr., Andrew J. Smith Co., 18 Campan Bldg., and 48 Glynn Court, Detroit, Mich.
- HEAD, Francis (1906), Engr. of Constr., The Sao Paulo Tramway, Light & Power Co., Ltd., Sao Paulo, Brazil, S. A.
- HEALY, Frederick E. (1906), Cons. Engr., Hotel Kastel, St. Catherine St., W., Montreal, Que., Canada.

- HEAP, Douglas T. (1906), Supt. Mech. Engrg. Dept., Royal Arsenal, Woolwich, Kent, and 3 Vanbrugh Park Rd., W., Blackheath, London, S. E., England.
- HEARNE, Robert J. (1907), Secy. and Treas., Durbrow & Hearne Mfg. Co., 12 Wooster St., and 48 W. 73d St., New York, N. Y.
- HEATON, Herman C. (Junior, 1904), Mech. Engr., Sargent & Lundy, Ry. Exch., Chicago, and 3441 Ivison Ave., Berwyn, Ill.
- HEBERD, Loren Loomis (Junior, 1912), Mech. Engr., Vaughn, Meyer & Sweet, 1007 Majestic Bldg., Milwaukee, Wis.
- HECHT, Julius Lawrence (1907), Pub. Service Co. of No. Ill., 137 S. La Salle St., Chicago, and 2022 Harrison St., Evanston, Ill.
- HECK, Robert C. H. (1906), Prof. Mech. Engrg., Rutgers College, and *for mail*, 35 College Ave., New Brunswick, N. J.
- HECKER, H. A. (1906), 2032 Elm Ave., Norwood, O.
- HEDEMANN, Christian J. (1904), Genl. Mgr., Honolulu Iron Wks. Co., and 601 Judd St., Honolulu, Hawaii.
- HEERMANN, Frederick M. (1907), Engr. and Spec. Inspr., Factory Mut. Fire Ins. Co.'s, 31 Milk St., Boston, and *for mail*, 815 Centre St., Jamaica Plain, Mass.
- HEFFERNAN, John T. (1894), Pres. and Mgr., Heffernan Eng. Wks., 108 Railroad Ave., and 1821 17th Ave., Seattle, Wash.
- HEGGM, Charles O. (1889), Genl. Supt., The Russell & Co., and *for mail*, 1807 E. Main St., Massillon, O.
- HEIDELBERG, Frederick Martin (Junior, 1910), 927 Tenth St., Douglas, Ariz.
- HEIKEL, Daniel August (1899), Life Member; Mech. Engr., Abo, Finland.
- HEILMANN, Carl A. (Junior, 1913), Engrg. Rep., Am. Radiator Co., and *for mail*, 115 N. Broad St., Philadelphia, Pa.
- HEIMANN, Leopold (1913), Charge of Condenser Dept., Mesta Meh. Co., Box 1124, and *for mail*, 5739 Darlington Rd., Pittsburgh, Pa.
- HEINEN, Emil Jennings (1910; 1913), 707 Commerce Bldg., St. Paul, Minn.
- HEISLER, Charles L. (1895), 325 Glenwood Blvd., Schenectady, N. Y.
- HEISLER, F. Wm. (1897; 1909), Supt., Divine Tire Co., 136 Broad St., and *for mail*, 3 Miller St., Utica, N. Y.
- HEIZMANN, Louis J. (Junior, 1907), V. P., Penn Hardware Co., and *for mail*, 318 N. 5th St., Reading, Pa.
- HELANDER, Axel H. (1903), Sales Mgr. and Cons. Engr., The William Tod Co., and 204 Broadway, Youngstown, O.
- HELLER, H. Howard (1909), Rm. 2070, 50 Church St., New York, N. Y.
- HELMES, M. J. (Junior, 1903), Cons. Engr., 240 Dashwood House, New Broad St., London, E. C., England.
- HELMREICH, L. W. (Associate-Member, 1913), Head Dept. of Elec., Ranken Mech. Sch., 4420 Cook Ave., St. Louis, Mo.

- HELVEY, Clarence H. (Junior, 1905), Sales Engr., 303 N. 2d St., Hamilton, O.
- HELVEY, George Stanley (Junior, 1904), Secy. and Treas., Miami Fdy. Co., and *for mail*, 143 South E St., Hamilton, O.
- HEM, H. O. (1909), V. P. and Supt., H. N. Strait Mfg. Co., and *for mail*, 721 W. 18th St., Kansas City, Mo.
- HEMSTREET, Geo. P. (1906), Supt., Hastings Pavement Co., Hastings-on-Hudson, N. Y.
- HENDEE, Edward Thomas (Associate, 1908), Secy. and Mgr. Mchy. and R. R. Depts., Joseph T. Ryerson & Son, V. P., Lennox Mch. Co., and *for mail*, 4143 Sheridan Rd., Chicago, Ill.
- HENDERSON, Clark T. (1910; 1913), Elec. and Mech. Engr., The Cutler Hammer Mfg. Co., Milwaukee, Wis.
- HENDERSON, Geo. R. (1890), Cons. Engr., The Baldwin Loco. Wks., 500 N. Broad St., and The St. James, Philadelphia, Pa.
- HENDERSON, J. R. (1910), Mgr., Pueblo Wks., The Stearns-Roger Mfg. Co., 1720 California St., and 1401 Madison St., Denver, Colo.
- HENDERSON, Richard (1906), Capt., U. S. N., Ret., P. O. Box 285, Salisbury, N. C.
- HENDERSON, Robert Halsey (1907), Mgr. of Wks., Westinghouse Lamp Co., Bloomfield, and *for mail*, 157 Greenwood Ave., East Orange, N. J.
- HENDRICK, Wallace Mather (Junior, 1912), Asst. Engr., The N. Y. Continental Jewell Filtration Co., Hudson and Sussex Sts., Jersey City, N. J., and *for mail*, 11 Clarkson Ave., Brooklyn, N. Y.
- HENDRY, W. Ferris (1907), Tech. Supt., West. Elec. Co., Hawthorne Sta., Chicago, and 226 Linden Ave., Oak Park, Ill.
- HENES, Harry W. (Junior, 1909), Pres. and Treas., Henes Sales Corp., Rm. 603, 179 W. Washington St., and 443 Barry Ave., Chicago, Ill.
- HENES, Louis G. (1903; Associate, 1910), Mgr., Manning, Maxwell & Moore, Inc., Mgr., Commer. Acetylene Ry. Light & Signal Co., Mgr., Ry. Materials Co., 247-249 Monadnock Bldg., San Francisco, and Key Route Hotel, Oakland, Cal.
- HENN, Edwin C. (1913), V. P. and Genl. Supt., The Natl-Acme Mfg. Co., Cleveland, O.
- HENN, Oliver L. (Junior, 1913), Asst. to Supt., The Natl-Acme Mfg. Co., and 1719 E. 116th Pl., Cleveland, O.
- HENNEY, David (1908), Twombly & Henney, 55 Liberty St., New York, N. Y., and *for mail*, 92 Lorraine Ave., Upper Montclair, N. J.
- HENNEY, John (1884), Duncan Hall, New Haven, Conn.
- HENNING, John L. (1913), Asst. Mgr., The Union Sulphur Co., Sulphur, La.
- HENRY, Geo. J. (1901), Cons. Hyd. and Mech. Engr., 737 Rialto Bldg., San Francisco, Cal.
- HENRY, Jos. S. (1911), Genl. Mgr., Adelong Gold Estates, Cons. Engr., Adelong Ck. Dredging Co., Castlemaine, Victoria, Australia.

- HENRY, William Thomas (1887), P. O. Box 152, and 330 Lincoln Ave., Fall River, Mass.
- HENSHAW, Frederick V. (1900), Cons. Engr., William P. Bonbright & Co., Inc., 14 Wall St., New York, and 79 State St., Brooklyn, N. Y.
- HEPKE, George A. (Junior, 1912), Sales Engr., Erie City Iron Wks., 1360-1362 Woolworth Bldg., New York, N. Y., and 210 Chestnut St., Hamilton, O.
- HEQUEMBOURG, Charles G. (1904), Contr. and Engr., 733 Central Ave., Dunkirk, N. Y.
- HERB, Arthur (Junior, 1905), Mech. Engr., J. Schwarzwald & Sons, 18th and Magnolia Sts., and *for mail*, 1459 St. James Court, Louisville, Ky.
- HERBERT, Charles G. (1900), Acting Ch. Engr., The Solvay Process Co., Syracuse, N. Y.
- HERBERT, Frederick Davis (1899; 1907), Genl. Sales Mgr., Terry Steam Turbine Co., 90 West St., New York, N. Y., and *for mail*, 21 Marion Rd., Upper Montclair, N. J.
- HERBERT, Jack Stanley (1908), Pres. and Genl. Mgr., The Herbert-Evans Co., 1037 Penn Ave., Wilksburg, Pa.
- HERDMAN, Frank E. (1889), Mgr. and Engr., Water & Light Properties, Winnetka, Ill.
- HERING, Rudolph (1906), Life Member; Cons. Engr., Hering & Gregory, 170 Broadway, New York, N. Y., and 40 Lloyd Rd., Montclair, N. J.
- HERR, Edwin M. (1891), Vice-President, 1910-1912; Pres., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 140 Hutchinson Ave., Swissvale, Pa.
- HERR, Herbert T. (1907), V. P. and Genl. Mgr., The Westinghouse Mch. Co., East Pittsburgh, and 218 S. Dallas Ave., Pittsburgh, Pa.
- HERRESHOFF, J. B. Francis (1894), V. P., Nichols Copper Co., Cons. Engr., Genl. Chem. Co., 25 Broad St., and *for mail*, 620 West End Ave., New York, N. Y.
- HERRESHOFF, John B. (1884), Manager, 1893-1896; Pres. and Treas., Herreshoff Mfg. Co., 13 Burnside St., and 64 High St., Bristol, R. I.
- HERRICK, Carl Albert (1912), Cons. Engr., 3816 Thomas Ave., S., Minneapolis, Minn.
- HERRICK, Charles H. (1910), N. E. Rep. Gas Eng. Dept., National Meter Co., 159 Franklin St., Boston, and High St., Winchester, Mass.
- HERRICK, James A. (1880), Metallurgical Engr., Suite 70-72, 271 Broadway, New York, and 193 Mayflower Ave., New Rochelle, N. Y.
- HERRIMAN, Victor D. (Junior, 1909), Engr., Internatl. Steam Pump Co., 115 Broadway, New York, and *for mail*, 169 Quincy St., Brooklyn, N. Y.
- HERRON, James H. (1897; 1905), Cons. Metallurgical Engr., 2041 E. 3d St., Cleveland, and Fairmount Blvd., Shaker Hgts., Cleveland, O.

- HERSCHEL, Winslow Hobart (1910), Asst. Physicist, Bureau of Standards, Washington, D. C.
- HERSCHMANN, Arthur J. (1900; 1905), Watchung, N. J.
- HERSEY, Mayo Dyer (Junior, 1912), Asst. Physicist, U. S. Bureau of Standards, Washington, D. C., and 52 Trowbridge St., Cambridge, Mass.
- HERTER, Emil (1894), Ch. Mech. Engr., Edison Storage Battery Co., West Orange, and *for mail*, 129 Park Ave., Orange, N. J.
- HESS, Henry (1906), Manager 1911-1914; 928 Witherspoon Bldg., and 1510 W. Allegheny Ave., Philadelphia, Pa.
- HESS, Howard D. (1903), Prof. Mch. Design, Cornell Univ., and *for mail*, 7 South Ave., Ithaca, N. Y.
- HESS, Samuel P. (Junior, 1911), Asst. to Mgr. Motor Spring Dept., Detroit Steel Products Co., and 2923 E. Grand Blvd., Detroit, Mich.
- HEWITT, Edward R. (1913), 127 E. 21st St., New York, N. Y.
- HEWITT, Wm. (1880), Manager, 1884-1887; Estimating Engr., Am. Steel & Wire Co., and *for mail*, 471 Hamilton Ave., Trenton, N. J.
- HEWLETT, Edward M. (1897; 1900), Engr. of Switchboard Dept., Genl. Elec. Co., and Ballston Rd., R. D., Schenectady, N. Y.
- HEY, Harry A. (Junior, 1910), Assistant to Secretary, Am.Soc. M.E., 29 W. 39th St., New York, N. Y.
- HEYERDAHL, Thorvald (1912), Halvdan Svartestgt 16, Kristiania, Norway.
- HIBBARD, H. Wade (1891; 1894), Prof. Mech. Engrg., Univ. of Mo., 1307 Kaiser Ave., Columbia, Mo.
- HIBBARD, Henry D. (1883), Life Member; Cons. Engr., 144 E. 7th St., Plainfield, N. J.
- HIBBARD, Leonard J. (Associate, 1913), Genl. Mgr., L. J. Hibbard Co., World Bldg., New York, N. Y.
- HIBBARD, Robert L. (1913), Wks. Mgr., Riter-Conley Mfg. Co., Pittsburgh, and *for mail*, Leetsdale, Pa.
- HIBBARD, Thomas (1889), Treas. and Mech. Engr., Geo. Lawley & Sons Corp., Neponset, and *for mail*, 17 Nottingham St., Dorchester, Mass.
- HIDER, George Turner (Junior, 1911), Lake Providence, La., and Greenville, Miss.
- HIGDON, John C. (Associate, 1901), Mech. Engr. and Atty-at-Law, Spec., Pat. and Trade Mark Causes, 605 Central Natl. Bank Bldg., and 4300 Maryland Ave., St. Louis, Mo.
- HIGGINS, Campbell Peck (1893), 127 E. 5th Ave., Roselle, N. J.
- HIGGINS, George F. (1886; 1906), Treas., Gem Stamped Steel Co., Chelsea Sta., Boston, and *for mail*, 41 Mt. Vernon St., Melrose, Mass.
- HIGGINS, John W. (1902; 1913), Pres. and Treas., Worcester Pressed Steel Co., North Ave., and *for mail*, 184 Highland St., Worcester, Mass.
- HILDENBRAND, Harry (Junior, 1909), Genl. Supt., The L. C. Ehle Oil Mills, P. O. Box 278, and 1315 Hadley St., Houston, Tex.

- HILDRETH, W. A. (1902), Dir., Alfred Herbert, G. m. b. H., Potsdamerstr. 60, Berlin W. 57, Germany.
- HILDRETH, William Osgood (Junior, 1888), Engr., The Lamson Co., 161 Devonshire St., Boston, and *for mail*, 643 Westford St., Lowell, Mass.
- HILES, A. Lionel (1912), Ch. Engr. Hoisting and Min. Eng. Dept., Wash. Iron Wks., and *for mail*, 2101 31st Ave., S., Seattle, Wash.
- HILES, Elmer K. (1900; 1906), Mech. Engr., 2511 Oliver Bldg., and *for mail*, 5537 Hampton St., Pittsburgh, Pa.
- HILGARTNER, George Henry (1913), Export Leaf Tobacco Co., and 1902 Floyd Ave., Richmond, Va.
- HILL, Benjamin Wood (Junior, 1912), Hill Military Academy, Portland, Ore.
- HILL, Charles Hubbard (Associate, 1907), Designing Engr., Genl. Elec. Co., and *for mail*, 305 Lenox Rd., Schenectady, N. Y.
- HILL, Ebenezer (1892), Genl. Mgr., Norwalk Iron Wks. Co., South Norwalk, Conn.
- HILL, Ebenezer, Jr. (1900; 1907), Secy. and Supt., Norwalk Iron Wks. Co., South Norwalk, and *for mail*, 11 Elm St., Norwalk, Conn.
- HILL, Edgar Logan (Junior, 1908), Supt. Elec. Cable Wks., Am. Steel & Wire Co., P. O. Box 553, and 821 Pleasant St., Worcester, Mass.
- HILL, E. Rowland (1907), Cons. Engr., Gibbs & Hill, Pennsylvania Sta., New York, N. Y., and 111 S. Munn Ave., East Orange, N. J.
- HILL, Geo. (1892), Builder, 31 E. 27th St., New York, N. Y., and New Brunswick, N. J.
- HILL, Harold H. (Associate, 1904), Mech. Engr., Dist. Mgr., Erie City Iron Wks., 807 N. E. Bldg., and 11,036 Belleflower Rd., N. E., Cleveland; also Hilltop Farm, Wickliffe, Lake Co., O.
- HILL, John A. (1913), Publisher, 505 Pearl St., New York, N. Y.
- HILL, John W. (1899), Mech. and Sales Engr., Bantam Anti-Friction Co., 525 Dime Bank Bldg., Detroit, Mich., and 74 Plenty St., Providence, R. I.
- HILL, Nicholas Snowden, Jr. (1912), Cons. Engr., 100 William St., New York, N. Y., and 50 Glenwood Ave., East Orange, N. J.
- HILL, Reuben (1908), Factory Mgr., Detroit Lubricator Co., and Addison Apts., Detroit, Mich.
- HILL, Robert J. (Associate, 1904), 5027 Madison Ave., Chicago, Ill.
- HILL, Thomas (1900), Cons. Engr., 2102 Jersey St., and 2102 Lawndale, Quincy, Ill.
- HILL, Walter L. (Associate, 1902), Hill-Ray Engrg. Co., 110 State St., Boston, and Arlington, Mass.
- HILL, William (1883; 1889), Pres., The Collins Co., Collinsville, Conn.
- HILLER, Joseph Lilburne (Associate, 1907), Ch. Engr., Pa. Crusher Co., Stephen Girard Bldg., Philadelphia, Pa.

- HILLER, N. H. (1902), Pres., Carbondale Mch. Co., and 68 Laurel St., Carbondale, Pa.
- HILLMAN, Cecil Robert (1899), Loco. Supt., Sao Paulo Ry. Co., and Largo dos Guayanazes, No. 4, Sao Paulo, Brazil, S. A.
- HILLMANN, Gustav (1883), Life Member; Naval Arch., 470 Greene Ave., Brooklyn, N. Y.
- HILLYER, Frank H. (1913), Head Dept. of Forge and Fdy., Pratt Inst., Brooklyn, N. Y.
- HILLYER, George, Jr. (1898; Associate, 1904), Cons. Engr., 568 W. Peachtree St., Atlanta, Ga.
- HINCHMAN, C. R. (1893), Engr., Am. Steel & Wire Co., Cleveland, and Bedford, O.
- HINCHMAN, Theodore H., Jr. (1895; 1905), Cons. Engr., 708 Washington Arcade, and 223 Seminole Ave., Detroit, Mich.
- HINCKLEY, Charles Wright (Associate, 1912), Otis Elev. Co., 11th Ave. and 26th St., and 1330 St. Nicholas Ave., New York, N. Y.
- HIND, R. Renton (Junior, 1912), Ch. Engr., Ewa Plantation Co., Ewa, Hawaii.
- HINDE, Louis Joseph (1912), Secy., The Toledo Mch. & Tool Co., and *for mail*, 2047 Glenwood Ave., Toledo, O.
- HINRICHS, Frederic William, Jr. (1911), Asst. Prof. Applied Mechanics, Univ. of Rochester, and 216 Oxford St., Rochester, N. Y.
- HINTZE, Thomas F. (Junior, 1912), Engr's. Asst. Constr. Dept., Consltd. Gas Co., 124 E. 15th St., New York, and 228 Eighth St., Elmhurst, L. I., N. Y.
- HIRSCH, Gustav (1913), Cons. Engr., 956 Jaeger St., Columbus, O.
- HIRSCHLAND, Dr. Franz Herbert (Junior, 1906), Genl. Mgr., Goldschmidt Detinning Co., 60 Wall St., and 155 Riverside Drive, New York, N. Y.
- HIRSHFELD, Clarence Floyd (Junior, 1905), Prof. Power Engrg., Sibley College, Cornell Univ., and *for mail*, 206 Quarry St., Ithaca, N. Y.
- HIRSHHEIMER, Harry Julius (1892; Associate, 1904), V. P., La Crosse Plow Co., and *for mail*, 131 S. 15th St., La Crosse, Wis.
- HIRT, Louis Joseph (1894), V. P., Pearson Engrg. Corp., 115 Broadway, New York, and *for mail*, Van Cortland Terrace, Yonkers, N. Y.
- HITCHCOCK, Embury A. (1898), Power Sales Engr., E. W. Clark & Co. Management Corp., 910 Wyandotte Bldg., and *for mail*, 380 W. 8th Ave., Columbus, O.
- HITCHCOCK, Fred'k Matthew (1899; 1907), Mgr., Dexter Folder Co., Pearl River, N. Y.
- HOAGLAND, Frank Oscar (1912), Wks. Mgr., Union Metallic Cartridge Co., and *for mail*, 939 Barnum Ave., Bridgeport, Conn.
- HOBART, Frank G. (1890), Ch. Engr., Fairbanks-Morse Mfg. Co., and *for mail*, 1259 Chapin St., Beloit, Wis.
- HOBART, James C. (1888; 1893), Pres. and Mgr., Triumph Elec. & Ice Mch. Cos., and 2820 Winslow Ave., Cincinnati, O.

- HOBBS, Franklin Warren (1911), Pres. and Exec. Officer, Arlington Mills, 78 Chauncy St., Boston, and 78 Upland Rd., Brookline, Mass.
- HOBBS, James Clarence (Junior, 1912), Steam Engr., Duquesne Light Co., 435 Sixth Ave., and *for mail*, 5137 Woodlawn Ave., Pittsburgh, Pa.
- HOBERT, Stephen G. (1897; 1906), Cons. Engr., Gibbons Bldg., 20 E. Jackson Blvd., Chicago, Ill.
- HOCHSTRASSER, Arnold (1913), Supt. of Wks., The Whitehall Cement Mfg. Co., Cementon, Pa.
- HODGE, Harry S. (1891), 83 Alfred St., Detroit, Mich.
- HODGE, Wm. W. (Junior, 1909), Asst. Supt. Elec. Cable Wks., Am. Steel & Wire Co., and *for mail*, 3 Berkman St., Worcester, Mass.
- HODGES, Chas. Bowen (Junior, 1897), H. K. Porter & Co.'s Shop, Pittsburgh, Pa.
- HODGINS, George S. (1908), Asst. Engr., Natl. Transcontinental Ry., and 300 Cooper St., Ottawa, Ont., Canada.
- HODGKINSON, Francis (1902), Mech. Engr., Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 127 Linden St., Edgewood Park, Pa.
- HODGSON, Alec Wilberforce (1910), M. M., Astoria Light, Heat & Power Co., Astoria, L. I., N. Y., and *for mail*, 190 Belmont Ave., Jersey City, N. J.
- HOE, Robert (1913), Pres., R. Hoe & Co., 504 Grand St., New York, N. Y.
- HOEFER, Elmer Geo. (Associate, 1909), Head Dept. Mech. and Elec. Engrg., Univ. of Wyoming, and *for mail*, 415 Eleventh St., Laramie, Wyo.
- HOERR, Alexander L. (1907), Steam and Hyd. Engr., Natl. Tube Co., Natl. Wks., and *for mail*, 1011 McCleary St., McKeesport, Pa.
- HOFFMAN, James David (1894; 1903), Prof. Mech. Engrg. and Practical Mechanics, Univ. of Neb., Sta. A, and 43d and Dudley Sts., Lincoln, Neb.
- HOFFMANN, Simon (1911), First V. P., Loco. Superheater Co., 30 Church St., New York, N. Y., and *for mail*, Steinhöferstr. 4, Cassel-Wilhelmshöhe, Germany.
- HOFMEYER, Geo. A. (Associate, 1905), Inventor and Mfr., Ridgewood, and *for mail*, Hohokus, N. J.
- HOGAN, Patrick Henry (Associate, 1904), N. E. Mgr., Dearborn Chem. Co., John Hancock Bldg., and Roslindale, Boston, Mass.
- HOGG, James (1913), Cons. Engr. and Wool Expt., Stephen Sanford & Sons, Inc., and *for mail*, 7 Academy St., Amsterdam, N. Y.
- HOGLE, Milton W. (1901; 1906; 1911), Hopeman Bros. Lumber & Mfg. Co., 569 Lyell Ave., Rochester, N. Y.
- HOGUE, Oliver Driscoll (1909), 550 Tremont Bldg., Boston, Mass.
- HOKE, Charles Constantine (1912), Oaktown, Ind.

- HOLBROOK, Dio Lewis (1899), Engr., Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St., and *for mail*, 46 E. 21st St., New York, N. Y.
- HOLBROOK, Percy (1900), V. P., Rail Joint Co., 185 Madison Ave., New York, N. Y.
- HOLDSWORTH, Fred Dean (1904), Mech. Engr., Sullivan Mch. Co., Claremont, N. H.
- HOLL, Chas. L. (Junior, 1908), Jos. Schlitz Brewing Co., Milwaukee, Wis., and *for mail*, 302 S. Monroe St., Streator, Ill.
- HOLLANDER, Emanuel (1901; 1906), Ch. of Estimating Staff, Engrg. Dept., Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St., and 143 W. 111th St., New York, N. Y.
- HOLLENBERGER, Theodore James (Junior, 1912), Engr., E. D. Hornbrook, and *for mail*, 3714 Walnut St., Kansas City, Mo.; also, 4433 N. Paulina St., Chicago, Ill.
- HOLLERITH, Herman (1880; 1883), 1054 31st St., Washington, D. C.
- HOLLINGSWORTH, Samuel (1899; 1907), Mech. Engr., 171 E. Front St., Plainfield, and Stout Ave., Scotch Plains, N. J.
- HOLLIS, Ira N. (1884), Vice-President, 1911-1913; Pres., Worcester Poly. Inst., and 11 Boynton St., Worcester, Mass.
- HOLLMANN, Frederick W. (Junior, 1907), M. M., Md. Steel Co., and 811 C St., Sparrows Point, Md.
- HOLLOWAY, H. F. (1891), 165 Broadway, New York, N. Y., and *for mail*, 223 Upper Mountain Ave., Montclair, N. J.
- HOLLOWAY, Thurman Welford (1906; 1912), Asst. Prin., Sch. Mech. Engrg., Internatl. Corr. Schs., and *for mail*, 1659 Madison Ave., Scranton, Pa.
- HOLMAN, M. L. (1890), Vice-President, 1894-1896, 1903-1905; President, 1908; Cons. Engr., Holman & Laird, 1309 Chemical Bldg., and 6103 Waterman Ave., St. Louis, Mo.
- HOLMAN, R. Claude (1907), Genl. Supt., The Hooven-Owens-Rentschler Co., P. O. Box 385, Hamilton, O.
- HOLME, Raymond Arthur (Junior, 1912), Salesman, De La Vergne Mch. Co., New York, and *for mail*, 132 Ravine Ave., Yonkers, N. Y.
- HOLMES, Arthur (Junior, 1904), Engr., H. H. Franklin Mfg. Co., and *for mail*, 156 Westminster Ave., Syracuse, N. Y.
- HOLMES, Frederick S. (1913), Bank Vault Engr., 2 Rector St., New York, N. Y.
- HOLMES, Harold W. (Junior, 1912), Genl. Mgr., The Puritan Brick Co., V. P., The Detroit Tool Co., 1325 Penobscot Bldg., Detroit, Mich.
- HOLMES, Joseph Austin (1908), Dir., Bureau of Mines, and 2717 Quarry Rd., Washington, D. C.
- HOLMES, Urban Tigner (1910), Commander, U. S. N., Bureau of Steam Engrg., Navy Dept., Washington, D. C.
- HOLT, Charles Parker (Associate, 1906), V. P., The Holt Mfg. Co., and V. P., Holt Bros. Co., 304 Balboa Bldg., and 2600 Vallejo St., San Francisco, Cal.
- HOLT, Frank Eugene (1900), The Singer Mfg. Co., Elizabeth, and *for mail*, 93 W. 34th St., Bayonne, N. J.

- HONISS, William Henry (1899), Mech. Engr. and Solicitor of Patents, 60 Prospect St., and 102 Huntington St., Hartford, Conn.
- HONSBURG, August A. (1901), Mech. Engr., Ret., 7202 Broadway, Cleveland, O.
- HONYWILL, Albert William, Jr. (Junior, 1911), 522 Holmes St., Wilksburg, Pa.
- HOOD, Ozni Porter (1904), Ch. Mech. Engr., U. S. Bureau of Mines, 40th and Butler Sts., and *for mail*, Old Heidelberg Cottage No. 4, Braddock Ave. and Waverly St., Pittsburgh, Pa.
- HOOD, Warren Blake (Junior, 1910), Genl. Shop Inspr., Canadian Pacific Ry. Co., and *for mail*, 317 St. Joseph Blvd., W., Montreal, Que., Canada.
- HOOK, James William (Junior, 1912), Sales Mgr., C. A. Dunham Co., and *for mail*, 502 N. 5th St., Marshalltown, Ia.
- HOOPER, Charles Stephen (1912), Secy., Union Iron Wks., and *for mail*, 1057 W. 10th St., Erie, Pa.
- HOOPES, Clement R. (1913), Pres., Hoopes & Townsend Co., 1330 Buttonwood St., Philadelphia, and Elkins Park, Pa.
- HOOPES, Maurice (1901), Pres., Finch, Pruyn & Co., Glens Falls, N. Y.
- HOPKINS, Arthur T. (1912), Asst. Genl. Mgr., Mech. Rubber Co., Cleveland, O.
- HOPKINS, George F. (1912), Frost Gear & Mch. Co., and *for mail*, 1608 First St., Jackson, Mich.
- HOPKINS, Michael Sullivant (1913), V. P., E. W. Clark & Co. Management Corp., 1001 Wyandotte Bldg., and 72 Miami Ave., Columbus, O.
- HOPKINS, Nevil Monroe (1913), Elec. and Mech. Engr., Consultant in Pat. Cases, 2128 Bancroft Pl., Washington, D. C.
- HOPKINSON, Allen Haigh (1911), Gov. Dir., J. Hopkinson & Co., Ltd., Britannia Wks., and The Dene, Kirkheaton, Huddersfield, England.
- HOPKINSON, Joseph (1913), Supt., The Computing Scale Co., and *for mail*, Oakwood Ave., R. R. 12, Dayton, O.
- HOPPE, John J. (1890), Pres., Hoppes Mfg. Co., and Trump Mfg. Co., and *for mail*, 1330 E. High St., Springfield, O.
- HOPPIN, Charles Albert (1911), Genl. Supt. Elec. and Htg. Depts., Central Illinois Light Co., 316 S. Jefferson Ave., and 1707 Columbia Terrace, Peoria, Ill.
- HOPPS, John Herbert (1905), Cons. Engr., 503 Market St., San Francisco, and Ross, Marin Co., Cal.
- HOPTON, W. E. (1891; 1896), Purchasing Dept., Solvay Process Co., and *for mail*, 311 Summit Ave., Syracuse, N. Y.
- HORNE, George A. (1912), Supt., Meriden Fire Arms Co., and *for mail*, 45 Kensington Ave., Meriden, Conn.
- HORNE, Joseph Alfred (1913), Genl. Supt., Yale & Towne Mfg. Co., Stamford, Conn.
- HORNING, Harry L. (1913), Secy. and Genl. Mgr., Waukesha Motor Co., and 634 Wisconsin Ave., Waukesha, Wis.

- HORNUNG, Geo. (1886), Cons. Engr., Woolsack Bldg., Newport, and 512 Fairfield Ave., Bellevue, Ky.
- HORSTMANN, Henry J. (1894), Mech. Engr., The F. W. Horstmann Co., 408-410 John St., East Newark, and 240 Ridge St., Newark, N. J.
- HORTON, Charles M. (Junior, 1909), Averill Park, N. Y.
- HORTON, Elias Quereau (Junior, 1912), Engr. Sales Dept., Otis Elev. Co., 11th Ave. and 26th St., New York, N. Y.
- HORTON, John T. (1895), Specialist in Hoisting Equip., 90 West St., New York, and 276 Rugby Rd., Brooklyn, N. Y.
- HORTON, S. Ellsworth (1905), Pres. and Genl. Mgr., E. Horton & Son Co., Windsor Locks, Conn.
- HORTON, William M., Jr. (Junior, 1911), Asst. Supt., The Kirk Latty Mfg. Co., Cleveland, and *for mail*, 1557 Clarence Ave., Lakewood, O.
- HOSMER, Amos G. (1902), Mech. Supt., Utica Knitting Co., and *for mail*, 2313 Whitesboro St., Utica, N. Y.
- HOSMER, Sidney (1902), Elec. Engr., Edison Elec. Ill. Co., 39 Boylston St., and 74 Bay State Rd., Boston, Mass.
- HOUCHIN, Ernest A. (1911), Pres., Houchin-Aiken Co., 113-123 53d St., Brooklyn, N. Y.
- HOUGH, David Leavitt (1891; 1892), Pres., United Engrg. & Contr. Co., Pres., Cuban Engrg. & Contr. Co., and *for mail*, 17 W. 42d St., New York, N. Y.
- HOUGHTON, Charles E. (1899), Assoc. Prof. Mech. Engrg., N. Y. Univ., and *for mail*, Univ. Hgts., New York, N. Y.
- HOUGHTON, Clyde Arthur (Junior, 1909), Asst. Elec. Engr., Ill. Steel Co., and *for mail*, 569 Jackson St., Gary, Ind.
- HOUSER, Arthur M. (1912), Mech. Expt., Crane Co., and *for mail*, 3630 W. Polk St., Chicago, Ill.
- HOUSKEEPER, William G. (1906; 1913), 215 W. 23d St., New York, N. Y.
- HOUSTON, George H. (1913), Supt., The Root & Van Dervoort Engrg. Co., East Moline, and 1113 12th Ave., Moline, Ill.
- HOUSTON, Harold A. (Junior, 1913), Inspr. Tonnage Ratings, Mech. Dept., Rock Island Lines, 935 La Salle Sta., and *for mail*, 3636 Lexington St., Chicago, Ill.
- HOUSUM, Chenoweth (Associate, 1908), Allis-Chalmers Co., and *for mail*, 261 25th St., Milwaukee, Wis.
- HOVEY, Otis Ellis (1913), Asst. Ch. Engr., Am. Bridge Co. of N. Y., 30 Church St., New York, N. Y.
- HOWARD, Cecil D. (Junior, 1913), Draftsman, Natl. Transit Co. Shops, and *for mail*, 108½ Innis St., Oil City, Pa.
- HOWARD, Charles Alton (Junior, 1907), Mech. Engr., Gunn, Richards & Co., 43 Wall St., and *for mail*, 633 Riverside Drive, New York, N. Y.
- HOWARD, Charles P. (1880), Pres., James L. Howard & Co., and 116 Farmington Ave., Hartford, Conn.
- HOWARD, Ernest Emmanuel (1913), Assoc. Engr., Waddell & Harrington, 1012 Baltimore Ave., Kansas City, Mo.

- HOWARD, Henry Sherwin (1911; 1913), Engr., 601 Alaska Commercial Bldg., San Francisco, and 2065 Oakland Ave., Piedmont, Cal.
- HOWARD, O. Zell (1908), Cons. Engr., 90 West St., and 356 W. 145th St., New York, N. Y.
- HOWARTH, H. A. Stevens (1908), Asst. Prof. Mch. Design, Carnegie Inst. of Tech., and *for mail*, 3732 Dawson St., Pittsburgh, Pa.
- HOWARTH, Jacob M. (Junior, 1913), Mech. Draftsman and Test Engr., U. S. Yards, Swift & Co., and *for mail*, 4327 Emerald Ave., Chicago, Ill.
- HOWE, Albert W. (1903), Rep. and Engr., Robert Wetherill & Co., 17 Battery Pl., New York, and *for mail*, Hotel St. George, Brooklyn, N. Y.
- HOWELL, Arthur Kemp (Junior, 1912), Sales Rep., Henry R. Worthington, and *for mail*, 335 Edith Ave., Memphis, Tenn.
- HOWELL, Edward I. H. (1889), Mech. Engr., 312 Bullitt Bldg., and 5218 Germantown Ave., Philadelphia, Pa.
- HOWELL, Frank B. (1901), 1807 Elmwood Ave., Buffalo, N. Y.
- HOWELL, Frank Scott (Associate, 1909), Mech. Engr., Howell & Howell, 1182 Broadway, New York, and 21 Bancker Pl., New Rochelle, N. Y.
- HOWELL, Horace Llewellyn (Associate-Member, 1913), 1150 W. 68th St., Chicago, Ill.
- HOWELL, Sylvester S. (1911), Cons. Engr., Chamberlain & Howell, Engrs., 1719 Marquette Bldg., and 6615 Woodlawn Ave., Chicago, Ill.
- HOWELLS, Charles (1904), Box 164, Washingtonville, N. Y.
- HOWELLS, Frank Edgar (1913), Supt. of Shops, The Pa. Steel Co., and *for mail*, 355 Locust St., Steelton, Pa.
- HOWES, Ray Lawrence (Junior, 1913), Salesman, Fairbanks, Morse & Co., St. Louis, Mo.
- HOWLAND, Lewis Abner (1910), Genl. Supt., Queens Borough Gas & Elec. Co., Far Rockaway, N. Y.
- HOWLETT, Lewis G. (Junior, 1903), Supt., Industrial Wks., and *for mail*, 1500 Sixth St., Bay City, Mich.
- HOXIE, Frederick J. (1907), Engr. and Spec. Inspr., Asso. Factory Mut. Ins. Cos., 31 Milk St., Boston, Mass., and *for mail*, Phenix, R. I.
- HOXIE, George L. (1893; 1904), Hoxie & Goodloe, 50 E. 41st St., New York, N. Y., and 99 Clarewill Ave., Upper Montclair, N. J.
- HOXIE, Wm. D. (1899), V. P., The Babcock & Wilcox Co., 85 Liberty St., New York, and 298 Washington Ave., Brooklyn, N. Y.
- HOYT, Raymond D. (1913), V. P. and Genl. Mgr., Warren Constr. Co., 700 Journal Bldg., Portland, Ore.
- HUBBARD, Allen (1910), Hollis French & Allen Hubbard, 88 Pearl St., Boston, and Montvale Crescent, Newton Centre, Mass.
- HUBBARD, Carleton Waterbury (Junior, 1911), Mech. Engr., Fuel Engrg. Co. of N. Y., 59 Pearl St., New York, and *for mail*, 2100 Albemarle Rd., Brooklyn, N. Y.

- HUBBARD, George Wallace (1913), Asst. Mech. Engr., D. H. Burnham & Co., 1417 Ry. Exch. Bldg., Chicago, and 1409 Iowa St., Oak Park, Ill.
- HUBBELL, Charles W. (1913), Lock Box 655, Stamford, Conn.
- HUBERT, Herman (1905), Inst. de Mecanique, Blvd. de la Constitution, and *for mail*, rue de Selys, Liege, Belgium.
- HUDSON, Frederick W. (1911), Mech. Dept., Toronto & York Radial Ry. Co., and *for mail*, 326 Margueretta St., Toronto, Ont., Canada.
- HUDSON, Robert Allan (Junior, 1909), Partner, Hunter & Hudson, 729 Rialto Bldg., San Francisco, and 1945 Berryman St., Berkeley, Cal.
- HUDSON, Wilbur Gregory (1906), V. P., Guarantee Constr. Co., 90 West St., New York, N. Y., and 753 De Graw Ave., Newark, N. J.
- HUESTIS, Bronson Lovett (Junior, 1913), Draftsman, Stresau Engrg. Co., 31 Washington St., and *for mail*, 243 E. 25th St., Brooklyn, N. Y.
- HUFF, Slaughter W. (1891; 1897), 259 Franklin Ave., and 569 St. Marks Ave., Brooklyn, N. Y.
- HUGHES, Burton Shelley (1908), Cons. Engr., 1014 Commercial Tribune Bldg., and 1303 Burdette Ave., W. H., Cincinnati, O.
- HUGHES, Davydd C. (1912), Pres., Hughes-Wessling Co., and *for mail*, 1774 Leland Ave., Chicago, Ill.
- HUGHES, Frederick George (1913), Ch. Engr., The New Departure Mfg. Co., and *for mail*, 19 Woodland St., Bristol, Conn.
- HUGHES, Robert G. (1908), Secy. and Mech. Engr., John W. Ferguson Co., and *for mail*, 152 Market St., Paterson, N. J.
- HUGO, T. W. (1882), Cons. Engr., 221 W. 6th Ave., Duluth, Minn.
- HULBERT, William Rowsell (1906; 1912), Sales Mgr., Goldschmidt Thermit Co., 90 West St., New York, N. Y.
- HULETT, Frank E. (1906), Engr., Wellman-Seaver-Morgan Co., Cleveland, and *for mail*, 6 Rosalind Ave., East Cleveland, O.
- HULETT, Geo. Henry (1903), V. P., Wellman-Seaver-Morgan Co., and *for mail*, 8724 Carnegie Ave., Cleveland, O.
- HULL, Foster John (1912), 102 Broadway, Hagerstown, Md.
- HULL, Monroe Richmond (1913), Mech. and Structural Designer, Anaconda Copper Min. Co., and *for mail*, 625 First Ave., N., Great Falls, Mont.
- HUMBACH, Karl Edward (Associate, 1913), Estimating Engr., Cambria Steel Co., and *for mail*, 426 Cypress Ave., Johnstown, Pa.
- HUMES, W. Sharon (Junior, 1911), Sales Mgr., Genl. Ry. Supply Co., 531 Marquette Bldg., and 5106 Sheridan Rd., Chicago, Ill.
- HUMMEL, Charles Frederick, Jr. (Junior, 1912), Metallurgical Engr., 2410 Putnam Ave., Ridgewood Heights, Brooklyn, and *for mail*, P. O. Box 135, Rockville Centre, L. I., N. Y.
- HUMMEL, Frank Louis (1912), Sales Engr., The Hooven, Owens, Rentschler Co., 39 Cortlandt St., New York, N. Y.

- HUMPHREY, Clifford Wayne (Associate, 1907), Cons. and Designing Engr., 818 Rookery Bldg., and 1704 W. 102d St., Chicago, Ill.
- HUMPHREY, George S. (1901), Secy. and Pur. Agt., C. W. Hunt Co., Inc., 45 Broadway, New York, and *for mail*, West New Brighton, S. I., N. Y.
- HUMPHREY, Orman B. (1907), Cons. Engr., 57 State St., and *for mail*, 63 Grove St., Bangor, Me.
- HUMPHREYS, Alex. C. (1884), Manager, 1907-1910; Vice-President, 1910-1911; President, 1912; Life Member; Pres., Stevens Inst. of Tech., Hoboken, N. J., Pres., Buffalo Gas Co., and *for mail*, Pres., Humphreys & Miller, Inc., 165 Broadway, New York, N. Y.
- HUNING, Arno E. (Junior, 1902), Owner, Arno Huning Elec. Co., 412 W. Central St., Albuquerque, New Mex.
- HUNT, Andrew M. (1895), Cons. Engr., 14 Montgomery St., San Francisco, Cal.
- HUNT, Charles B. (1902), Supt. Constr., Buckeye Eng. Co., and 636 McKinley Ave., Salem, O.
- HUNT, Eugene Alexander (Junior, 1910), Treas. and Genl. Mgr., The Gilbert Hunt Co., Walla Walla, Wash.
- HUNT, Herbert R. (Junior, 1913), Mech. Engr., William Williams, Contr., 86 Weybosset St., and *for mail*, 10 Poplar St., Providence, R. I.
- HUNT, Leigh A. (1906), Hunt Engrg. Co., 1104 Commerce Bldg., Kansas City, Mo., and *for mail*, Gold Hill, Ore.
- HUNT, Paul Benson (Junior, 1913), Draftsman, Allis-Chalmers Mfg. Co., and *for mail*, 479 64th Ave., West Allis, Wis.
- HUNT, Robert W. (1880), President, 1891; Manager, 1882-1885; Robert W. Hunt & Co., 2200 Insurance Exch. Bldg., and 77 E. Division St., Chicago, Ill.
- HUNT, Wm. Floyd (1894; Associate, 1903), Life Associate; Cons. Engr., 115 Broadway, New York, N. Y.
- HUNT, Wilson P. (Associate, 1913), Mgr., Moline Tool Co., and *for mail*, 319 20th St., Moline, Ill.
- HUNTER, Charles Welsh (1911; 1912), Gas Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- HUNTER, Geo. E. (1890), Genl. Supt., Elgin Natl. Watch Co., and *for mail*, 325 Watch St., Elgin, Ill.
- HUNTER, J. S. (1889), 15 Washington St., Hartford, Conn.
- HUNTER, James D. (1894), V. P., Hunter Mch. Co., 48 Wall St., North Adams, Mass.
- HUNTER, James Francis (1899; 1909), Asst. Engr. of Constr., Consld. Gas Co., 4 Irving Pl., New York, and 1323 Dorchester Rd., Brooklyn, N. Y.
- HUNTER, John (1909), Manager, 1913-1916; Ch. Engr., Union Elec. Light & Power Co., 12th and Locust Sts., and 3103 Shenandoah Ave., St. Louis, Mo.
- HUNTER, John A. (1909), Steam Engr., Am. Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, and 151 Dickson Ave., Ben Avon, Pa.

- HUNTINGTON, Chapin (Junior, 1913), care of C. W. Huntington, 143 Liberty St., New York, N. Y., and Junkerstr. 93, Aachen, Germany.
- HUNTINGTON, Clarence William (1913), Genl. Supt., Central R. R. Co. of N. J., 143 Liberty St., New York, N. Y.
- HURD, Charles Henry (1902), V. P., Indianapolis Water Co., 113 Monument Pl., and 4430 Central Ave., Indianapolis, Ind.
- HURD, Hobert J. (1894; 1897), 908 W. 3d St., Plainfield, N. J.
- HURDELL, Victor Hollister (Junior, 1912), Salesman, Internatl. Steam Pump Co., 465 John Hancock Bldg., Boston, Mass., and 2048 Broad St., Edgewood, R. I.
- HURLBURT, Alfred (Associate, 1902), Engr., Kansas City Gas Co., 910 Grand Ave., and 716 Gleed Terrace, Kansas City, Mo.
- HURLEY, Daniel (Junior, 1904), Technology Chambers, Boston, Mass., and 42 E. Manning St., Providence, R. I.
- HURST, George L. (1912), Mgr. Dredging Dept., Union Iron Wks. Co., and *for mail*, 311 California St., San Francisco, Cal.
- HUSON, Winfield Scott (1887; 1891), Genl. Supt., Whitlock Ptg. Press Mfg. Co., and 12 Cottage St., Derby, Conn.
- HUSSEY, Charles Ward (Junior, 1908), Westinghouse Church Kerr & Co., 37 Wall St., New York, and *for mail*, 33 St. Andrews Pl., Yonkers, N. Y.
- HUSSEY, Oren S. (1897), Treas., Frank Ridlon Co., 253 A St., Boston, and Brookline, Mass.
- HUSSEY, Wm. Edgerly (1904), Mgr. N. Y. Office, Providence Engrg. Wks., 50 Church St., New York, and 194 Bainbridge St., Brooklyn, N. Y.
- HUSTED, Clifford Mackay (Junior, 1910), Mgr., Husted Milling Co., and *for mail*, 151 Park St., Buffalo, N. Y.
- HUSTON, Charles L. (Associate, 1887), V. P. and Wks. Mgr., Lukens Iron & Steel Co., and V. P. and Wks. Mgr., Jacobs-Shupert U. S. Fire Box Co., and 64 S. 1st Ave., Coatesville, Pa.
- HUTCHENS, Edward (1913), Mech. Supt., Federal Rubber Mfg. Co., and *for mail*, Box 3, Cudahy, Wis.
- HUTCHINGS, Clifford F. (1907; 1913), Branch Office Mgr., Sprague Elec. Wks., Oliver Bldg., and 5716 Forbes St., Pittsburgh, Pa.
- HUTCHINS, George Francis (1910), Genl. Supt., Crompton & Knowles Loom Wks., and *for mail*, 20 Ripley St., Worcester, Mass.
- HUTCHINSON, Arthur H. (1899), Sales Engr., Frick Co., 406-407 Atlanta Natl. Bank Bldg., and *for mail*, 58 Ponce de Leon Pl., Atlanta, Ga.
- HUTCHINSON, Cary T. (1894), Cons. Engr., 60 Wall St., New York, N. Y.
- HUTCHINSON, Charles Tripler (1910), Managing Editor, Western Engineering, 420 Market St., San Francisco, Cal.
- HUTCHINSON, Ely Champion (1912), Commer. Engr., The Pelton Water Wheel Co., 19th and Harrison Sts., San Francisco, and 2732 21st Ave., East Oakland, Cal.

- HUTCHINSON, George Weymouth (1913), Ch. Engr., Keystone Coal & Coke Co., Greensburg, Pa.
- HUTCHISON, Miller Reese (1912), Personal Rep., Thos. A. Edison, Ch. Engr. Edison Lab., Thos. A. Edison, Inc., Edison Storage Battery Co., Orange, and Llewellyn Park, West Orange, N. J.
- HUTCHISON, Richard (1900; 1904), Dist. Sales Mgr., Babcock & Wilcox Co., 35 Federal St., Boston, Mass.
- HUTSON, Henry L. (1906; 1908), Ch. Engr. and Secy., A. M. Lockett & Co., Ltd., 533 Baronne St., and 721 Lowerline St., New Orleans, La.
- HÜTTINGER, Wilhelm R. (Junior, 1906), 19 W. Ridgewood Ave., Ridgewood, N. J.
- HUTTON, Frederick R. (1880), Secretary, 1883-1906; President, 1907; Honorary Secretary of the Society, 29 W. 39th St.; Life Member; Emeritus Prof. Mech. Engrg., Columbia Univ.; Cons. Engr., Automobile Club of Am., and *for mail*, 257 W. 86th St., New York, N. Y.
- HUTTON, Mancius S. (Junior, 1908), 257 W. 86th St., New York, N. Y.
- HUTTON, Sol Elwood (1912), Cons. Engr., 115 Van Buren St., Moscow, Idaho.
- HVID, Marinus (Junior, 1911), Ch. Draftsman, Inland Steel Co., Indiana Harbor, Ind., and 7532 Champlain Ave., Chicago, Ill.
- HVID, Rasmus M. (1907; Associate, 1909), V. P., R. M. Hvid Co., Old Natl. Bank Bldg., and *for mail*, 52 Frelinghuysen Ave., Battle Creek, Mich.
- HYATT, Herbert Richardson (1912), Mech. Engr. Sales Dept., Custodis Chimney Constr. Co., 95 Nassau St., New York, N. Y.
- HYDE, Charles E. (1885), Marine Engr. and Naval Arch., 424 W. 20th St., New York, N. Y.
- HYDE, John Sedgwick (Associate, 1892), Pres. and Genl. Mgr., Bath Iron Wks., Bath, Me.
- HYMAN, D. (1892), V. P., Empire Limestone Co., Hudson and 4th Sts., and Hotel Touraine, Buffalo, N. Y.
- HYMANS, Frederick (1912), Engr., Otis Elev. Co., New York, N. Y., and *for mail*, 179 Thomas St., Bloomfield, N. J.
- IDDLES, Alfred (Junior, 1913), Asst. Supt. of Mfg., Flint Gas Co., and *for mail*, 808 Clifford St., Flint, Mich.
- IDELL, Frank E. (1889), Life Member; Mech. Engr., 50 Church St., New York, N. Y.
- IDELL, Percy C. (1901; 1909), Mech. Engr. Sales Dept., The Babcock & Wilcox Co., 85 Liberty St., New York, and *for mail*, 157 83d St., Brooklyn, N. Y.
- ILLMER, Louis, Jr. (1913), Ch. Engr. Gas Power Dept., Reading Iron Co., and *for mail*, 117 Windsor St., Reading, Pa.
- ILSLEY, John Parker (1903; 1907), Niles-Bement-Pond Co., 111 Broadway, New York, and *for mail*, Fourth St., New Brighton, S. I., N. Y.
- IMBRIE, William Morris, Jr. (1913), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y.

- INGALLS, Frederick D. B. (1909), Ch. Htg. and Ventilating Engr., C. A. Dunham Co., and *for mail*, 309 N. 1st St., Marshalltown, Ia.
- INGERSOLL, Winthrop (Associate, 1893), Pres., Ingersoll Milling Mch. Co., 1239 National Ave., Rockford, Ill.
- INGHAM, Howard M. (1907), Efficiency Engr., Mohawk Bldg., 160 Fifth Ave., New York, N. Y., and 76 Dwight Pl., Englewood, N. J.
- INSLEE, Heber Clyde (1907), Engr. on Plant Work, The Babcock & Wilcox Co., Bayonne, N. J.
- IRELAND, Mark L. (1902; 1913), Capt. Coast Artillery Corps, U. S. A., Fort Mills, Manila, P. I.
- IRWIN, F. K. (1913), Supt. B. and O., Boston & Me. R. R., 304 North Sta., Boston, and 1213 Beacon St., Brookline, Mass.
- ISELL, Howard L. (Junior, 1891), Asst. Ch. Engr., Am. Brass Co., Waterbury, and *for mail*, 706 High St., Union City, Conn.
- ISENBERG, Hans O. C. (1913), Engr., The S G V Co., and *for mail*, 1246 Perkiomen Ave., Reading, Pa.
- ISHAM, Henry S. (1902; 1907), Mech. Draftsman, Interborough Rapid Transit Co., 165 Broadway, and *for mail*, 951 Park Ave., New York, N. Y.
- ISHERWOOD, Benjamin Franklin (Honorary, 1894), Ret. Ch. Engr., Rank of Rear Admiral, U. S. N., 111 E. 36th St., New York, N. Y.
- ISRAEL, Albert Herman (Junior, 1913), Mech. Engr., Engrg. Supervision Co., 366 Fifth Ave., and *for mail*, 74 W. 92d St., New York, N. Y.
- ISRAEL, Charles Henry (1912), Dist. Mgr., Harrisburg Fdy. & Mch. Wks., 619 Pennsylvania Bldg., and 5052 Walnut St., Philadelphia, Pa.
- IVENS, Edmund M. (Junior, 1908), Asst. Mgr. New Orleans Office, Skinner Eng. Co., 1018 Hibernia Bank Bldg., and *for mail*, 1321 State St., New Orleans, La.
- IVES, Frederick Walter (Junior, 1910), Instr. Engrg. Drawing, Ohio State Univ., and 2154 Tuller St., Columbus, O.
- JACKSON, Arthur C. (1903; 1910), Genl. Supt., Secy. and Treas., Miller Lock Co., 4533 Tacony St., Frankford, and *for mail*, 6445 Greene St., Germantown, Philadelphia, Pa.
- JACKSON, Charles Arthur (1911), Mech. and Hyd. Engr., The Pelton Water Wheel Co., 90 West St., New York, and 316 Avondale St., Woodhaven, L. I., N. Y.
- JACKSON, Charles J. (1905), 30 S. 5th St., Easton, Pa.
- JACKSON, Dugald C. (1890), 248 Boylston St., and Mass. Inst. of Tech., Boston, Mass.; also, D. C. & Wm. B. Jackson, 111 W. Monroe St., Chicago, Ill.
- JACKSON, F. W. (1909), Dist. Mgr., Harrisburg Fdy. & Mch. Wks., 424 N. Y. Life Bldg., Chicago, Ill.
- JACKSON, Henry Docker (1912), Cons. Engr., 88 Broad St., Boston, and 39 Albion St., Medford, Mass.
- JACKSON, Henry Wallace (Junior, 1913), Mech. Supt., Natl. Metal Edge Box Co., Philadelphia, and *for mail*, Maple Ave. near Union Ave., Cynwyd P. O., Cynwyd, Pa.

- JACKSON, John Price (1903), Pa. Commr. Labor and Industry, Harrisburg, and Dean Sch. of Engrg. Pa. State College, State College, Pa.
- JACKSON, Lucian C. (1901), Cons. Gas Eng. Expt., 905 D. S. Morgan Bldg., and *for mail*, 351 Hoyt St., Buffalo, N. Y.
- JACKSON, Percy (Junior, 1904), Brick Mfr., So. Brick Co., Box 242, Athens, Ga.
- JACKSON, Roscoe B. (Junior, 1904), Treas. and Genl. Mgr., Hudson Motor Car Co., Detroit, Mich.
- JACKSON, Walter W. (1902), Ch. Draftsman, The Regina Co., Rahway, and Sewaren, N. J.
- JACKSON, Wm. B. (1901), Manager, 1912-1915; Life Member; D. C. & Wm. B. Jackson, Engrs., Harris Trust Bldg., 111 W. Monroe St., and 5450 East View Park, Chicago, Ill.
- JACOBS, Arthur I. (1913), Pres., Treas. and Genl. Mgr., The Jacobs Mfg. Co., Hartford, Conn.
- JACOBS, Henry William (1905), Pres., Orweld R. R. Service Co., 339 Ry. Exch., Chicago, Ill., and 117 Greenwood Ave., Topeka, Kan.
- JACOBS, Ward S. (1897; 1904), Treas., The Walton Co., and *for mail*, 530 Farmington Ave., Hartford, Conn.
- JACOBUS, D. S. (1889), Manager, 1900-1903; Vice-President, 1903-1905; Advisory Engr., The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and Spec. Lecturer in Exper. Engrg., Stevens Inst. of Tech., Hoboken, and 70 Summit Ave., Jersey City, N. J.
- JACOBUS, Robert F. (1907; 1912), Francisco & Jacobus, 200 Fifth Ave., New York, N. Y., and *for mail*, Ridgefield, N. J.
- JAHNCKE, Ernest Lee (Associate, 1904), Pres., The Jahncke Navigation Co., 814 Howard Ave., and 1823 Palmer Ave., New Orleans, La.
- JAKOBSSON, Herman (1907), Cons. Engr. and Registered Pat. Atty., Knight Bros., 724 Ninth St., N. W., Washington, and Takoma Park, D. C.
- JALONICK, Hartwell (Junior, 1909), Tex. Power & Light Co., 1320 Commerce St., Dallas, Tex.
- JAMIESON, Major Charles Clark (1911), Efficiency Engr., Deere & Co., Moline, Ill.
- JAMISON, Alpha Pierce (Junior, 1900), Prof. Mech. Drawing, Purdue Univ., and *for mail*, 111 State St., W. S., Lafayette, Ind.
- JANNEY, Reynold (1912), Mech. Engr., 21 Claremont Ave., New York, N. Y.
- JANVIER, Henry Archer (1912), Asst. Mech. Engr., Ferracute Mch. Co., and *for mail*, 219 E. Commerce St., Bridgeton, N. J.
- JAPPE, Kurt W. (Junior, 1912), Sargent & Co., New Haven, Conn.
- JAQUAYS, Homer Morton (1899; 1903), Ch. Engr. Montreal Branch, The Steel Co. of Canada, Ltd., 1272 Notre Dame St., Montreal, and *for mail*, 645 Grosvenor Ave., Westmount, Que., Canada.

- JAQUES, Wm. H. (1893), Capt. and Pres., Hampton Water Wks. Co., Progress Mfg. Co., 142 Beacon St., Boston, Mass.; also, Little Boar's Head, N. H.
- JARECKI, Alexander (1889; 1905), Secy., Jarecki Mfg. Co., and *for mail*, 305 W. 6th St., Erie, Pa.
- JARVIS, Charles M. (1890), Vice-President, 1897-1899; Berlin, Conn.
- JEALOUS, Arthur R. (Junior, 1908), Genl. Elec. Co., 84 State St., Boston, Mass.
- JEFFCOTT, Robert Crawford (1912), V. P. and Genl. Mgr., The Cott-a-lap Co., Somerville, N. J.
- JEFFERIES, E. A. W. (1892), Mech. Engr., Morgan Constr. Co., and 656 Main St., Worcester, Mass.
- JEFFERIES, Frederick Lester (1900; 1905), Supt., Corn Products Refining Co., Argo, Cook Co., Ill.
- JEHLE, Ferdinand (Junior, 1913), Engr., Commercial Engrg. Labs., 88 Congress St., E., and *for mail*, 145 Horton Ave., Detroit, Mich.
- JENCKES, Lawrence Bates (1912), Engr., Crompton & Knowles Loom Wks., and *for mail*, 46 Fruit St., Worcester, Mass.
- JENKINS, Alexander Lewis (1907; 1913), Assoc. Prof. Mech. Engrg., Univ. of Cincinnati, and 369 Terrace Ave., Cincinnati, O.
- JENKINS, Harold Brewster (Junior, 1913), P. O. Box 15, Douglaston, L. I., N. Y.
- JENKINS, M. L. (1899), Genl. Supt., Buda Co., and *for mail*, 49 155th St., Harvey, Ill.
- JENKS, Glen F. (Junior, 1909), Sandy Hook Proving Ground, Fort Hancock, N. J.
- JENKS, Llywellyn Howard (1891), Mgr. N. Y. Office, Frick Co., 39 Cortlandt St., New York, N. Y., and Rutherford, N. J.
- JENKS, Richard P. (1902), Cons. Engr., Jenks & Ballou, 735 Grosvenor Bldg., and 52 Princeton Ave., Providence, R. I.
- JENKS, William H. (1889), Brookville, Pa.
- JENNENS, Arthur E. (Junior, 1912), Constr. Foreman, Phoenix Constr. Co., Kearns Bldg., and *for mail*, Box 1362, Salt Lake City, Utah.
- JENNESS, Chas. Harvey (1904), Instr. Mech. Drawing, Manual Training Dept., Chicopee H. S., and *for mail*, 106 Grape St., Chicopee, Mass.
- JENNINGS, Arthur Ballinger (1913), V. P. and Mgr., The Jeanesville Iron Wks., Hazleton, Pa.
- JENNINGS, Arthur Lewis (1913), Treas. and Genl. Mgr., The Russell Jennings Mfg. Co., Chester, Conn.
- JENNINGS, Chester S. (1912), Asst. Ch. Engr., The Lamson Co., 161 Devonshire St., Boston, Mass.
- JENNINGS, Edward M. (Junior, 1901), Jarvis Engrg. Co., and Sales Agt., Parson Mfg. Co., 63 Oliver St., Boston, and 64 Orlando Ave., Winthrop, Mass.
- JENNINGS, Irving Callender (Junior, 1908), Nash Engrg. Co., 40 Water St., and *for mail*, 50 West St., South Norwalk, Conn.

- JEPSON, George Nathaniel (1913), Wks. Mgr., Norton Co., and *for mail*, 41 Burncoat St., Worcester, Mass.
- JESSEN, N. Baashuus (1912), Hyd. Engr., J. G. White & Co., Ltd., and *for mail*, via Monte Suello, 4, Genoa, Italy.
- JETER, Sherwood F. (1909), Supv. Insp., The Hartford Steam Boiler Inspc. & Ins. Co., and *for mail*, 7 Oakland Terrace, Hartford, Conn.
- JETT, Carter C. (Junior, 1902), 527 Yale Ave., Youngstown, O.
- JEWELL, Chas. W. (1893), Engr., Dept. Water Supply, Gas and Elec., Brooklyn, and *for mail*, Woodhaven, N. Y.
- JEWETT, Arthur C. (1909), Prof. Mech. Engrg., Univ. of Me., Orono, Me.
- JEWETT, Frank N. (1908), Sales Mgr., Wagner Elec. Mfg. Co., 6400 Plymouth Ave., and *for mail*, 6 Parkland Pl., St. Louis, Mo.
- JOHANN, Chas. Sheppard (1913), Mgr. of Operation and Constr., Atlantic Gas & Elec. Co., 25 Broad St., New York, N. Y., and *for mail*, care of East. Pa. Power Co., 140 Ferry St., Easton, Pa.
- JOHN, Griffith (1899), Cons. Engr., Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St., New York, and *for mail*, 11 Delavan Terrace, Yonkers, N. Y.
- JOHNSON, Abbott Livingstone (1910), Pres., Warner Gear Co., and *for mail*, 330 Washington St., Muncie, Ind.
- JOHNSON, Arthur E. (1890; 1892), Life Member; Designer, Ordnance Office, War Dept., Washington, D. C.
- JOHNSON, Bradley S. (1909; 1913), Rep., The T. H. Symington Co., 623 Peoples Gas Bldg., and 1332 Lunt Ave., Chicago, Ill.
- JOHNSON, Carl Albert (1901), Pres., Gisholt Mch. Co., Madison, Wis.
- JOHNSON, Charles W. (1908), Genl. Supt., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 5890 Hobart St., Pittsburgh, Pa.
- JOHNSON, David Clayton (Junior, 1907), Asst. Engr., H. deB. Parsons, 22 William St., New York, and *for mail*, 245 Hewes St., Brooklyn, N. Y.
- JOHNSON, Edward E. (1891), Mfr., Well Screens, 2304 Long Ave., and *for mail*, 21 Langford Park Pl., St. Paul, Minn.
- JOHNSON, Edward Willis (1892), 70 Chestnut Ave., Waterbury, Conn.
- JOHNSON, F. Amos (1907), Cons. Mech. Engr. and Pat. Atty., 22 Morris St., Jersey City, and Dunellen, N. J.
- JOHNSON, Frank (1911), Eng. Designer, Cadillac Motor Car Co., and *for mail*, 152 Calvert Ave., Detroit, Mich.
- JOHNSON, Harry Disbrow, Jr. (Junior, 1912), Ch. Engr., Studebaker Corp., South Bend, Ind.
- JOHNSON, Henry W. (1913), Mech. Supt., The Bullard Mch. Tool Co., Bridgeport, Conn.
- JOHNSON, Hobart Stanley (1906), V. P. and Genl. Supt., Gisholt Mch. Co., Madison, Wis.
- JOHNSON, J. E., Jr. (1896; 1901), Cons. Engr. and Metallurgist, 52 William St., New York, N. Y.

- JOHNSON, James F. (Junior, 1912), Dir., State Trade Sch., and 629 Warren St., Bridgeport, Conn.
- JOHNSON, John Peter (1913), 15 Kenmore Pl., Brooklyn, N. Y.
- JOHNSON, John S. A. (1911), Prof. Exper. Engrg., Va. Poly. Inst., Blacksburg, Va.
- JOHNSON, Joseph Warren (Junior, 1913), Engrg. Dept., The Am. Agri. Chem. Co., 92 State St., Boston, and *for mail*, 30 Sumner St., Dorchester, Mass.
- JOHNSON, Lester Gurney (Associate, 1912), Commercial Engr., Genl. Elec. Co., and 22 Lakeview Ave., Schenectady, N. Y.
- JOHNSON, Louis L. (1908), Cons. Engr., 428 Law Bldg., Indianapolis, and *for mail*, Attica, Ind.
- JOHNSON, Nathan C. (1912), Raymond Concrete Pile Co., 140 Cedar St., New York, N. Y., and *for mail*, 109 Luzerne Ave., Pittston, Pa.
- JOHNSON, Paul F. (1905), Secy. and Treas., Johnson Service Co., and 628 Shepard Ave., Milwaukee, Wis.
- JOHNSON, Raymond D. (1911), Hyd. Engr., Ontario Power Co., Drawer 496, and 403 Jefferson Ave., Niagara Falls, N. Y.
- JOHNSON, Robert (1913), Engr. in Charge, Hecker-Jones-Jewell Milling Co., Corlears and Water Sts., New York, and 151 S. 9th St., Brooklyn, N. Y.
- JOHNSON, Theodore Woolsey (1900; 1913), Life Member; Prof. Mathematics, U. S. Navy, Naval Academy, and *for mail*, 55 Franklin St., Annapolis, Md.
- JOHNSON, Warren (Associate, 1904), Cons. Engr., 122 Carondelet St., and 9 La Salle Pl., New Orleans, La.
- JOHNSON, Werner (1903), Asst. Engr. Turbine Dept., Genl. Elec. Co., Lynn, and *for mail*, 7 Danforth Ave., Cliftondale, Mass.
- JOHNSON, William M. (Junior, 1902), Engr. Water Supply and Fire Protection, Panama-Pacific Internatl. Exposition, Service Bldg., and 940 Leavenworth St., San Francisco, Cal.
- JOHNSTON, Archibald (1901), V. P., Bethlehem Steel Co., South Bethlehem, and 120 Church St., Bethlehem, Pa.
- JOHNSTON, James Ambler (Junior, 1907), Engr., Cameal & Johnston, 707 Chamber of Commerce Bldg., and 1143 West Ave., Richmond, Va.
- JOHNSTON, John Parry (1907), 32 W. 40th St., New York, N. Y., and Philadelphia, Pa.
- JOHNSTON, William Atkinson (1911), Prof. of Theoretical and Applied Mechanics, Mass. Inst. of Tech., Boston, and Belmont, Mass.
- JOHNSTONE, Francis W. (1909), Mech. Engr., Natl. Iron & Steel Wks., S. A. Calzada de los Gallos, and Apartado 1031, Mexico City, Mexico, D. F.
- JONAS, Milton Rudolph (Junior, 1912), Steam Expt., Ill. Steel Co., and *for mail*, 1109 E. Cass St., Joliet, Ill.
- JONES, Albert I. (1892), Supt., The Pfaudler Co., 217 Cutler Bldg., and *for mail*, 107 Chili Ave., Rochester, N. Y.
- JONES, Benjamin N. (1904), Mgr. of Mfg., Otis Elevator Co., New York, N. Y., and *for mail*, 296 Essex Ave., Orange, N. J.

- JONES, Clement R. (1898; 1901), Dean College of Engrg., Prof. Steam and Exper. Engrg., W. Va. Univ., and 262 McLane Ave., Morgantown, W. Va.
- JONES, Daniel Lanning (Junior, 1905), Buyer and Asst. Factory Mgr., Chas. R. De Bevoise Co., Plane and Academy St., Newark, and *for mail*, 463 N. Grove St., East Orange, N. J.
- JONES, David Todd (1898; 1904), Genl. Mgr. and Treas., Wilbraham Green Blower Co., and *for mail*, 818 High St., Pottstown, Pa.
- JONES, Edward C. (1901), Ch. Engr. Gas Dept., Pacific Gas & Elec. Co., 445 Sutter St., and *for mail*, 2031 Vallejo St., San Francisco, Cal.
- JONES, Edward H. (1889), Cleveland, O., and *for mail*, Clearwater, Fla.
- JONES, Ellis Henry (1913), Asst. Genl. Supt., Canadian Yale & Towne, Ltd., and *for mail*, 97 James St., St. Catharines, Ont., Canada.
- JONES, Forrest R. (1890), 1702 Melrose Pl., Knoxville, Tenn.
- JONES, Forrest S. (Junior, 1911), Engr. and Contr., Gouthier, Allan & Jones, Minneapolis, Minn., and *for mail*, 1617 Cropsey Ave., Brooklyn, N. Y.
- JONES, Frank Cazenove (1891), Pres., W. A. Underhill Brick Co., 51 E. 42d St., and 147 W. 70th St., New York, N. Y.
- JONES, Harold C. (Junior, 1903), Asst. to V. P., Inland Steel Co., Chicago Heights, and 4808 Dorchester Ave., Chicago, Ill.
- JONES, Horace Kimball (1896), Life Member; Mech. Supt. Corbin Screw Div., Am. Hardware Corp., New Britain, and *for mail*, 722 Asylum Ave., Hartford, Conn.
- JONES, John Emlyn (1907), Engineers Club, 32 W. 40th St., New York, N. Y.
- JONES, John Lucien (Junior, 1911), Catalog Editor, Internatl. Harvester Co. of Am., and *for mail*, 1513 E. 65th Pl., Chicago, Ill.
- JONES, John W. S. (1901), Pres. and Treas., Birmingham Sanitary Bed & Mfg. Co., cor. Ninth Ave. and 40th St., and 1914 Eighth Ave., Birmingham, Ala.
- JONES, Reid (Junior, 1910), 45 Portland Pl., St. Louis, Mo.
- JONES, Russell Compton (Junior, 1912), Engrg. Dept., Griscom-Russell Co., 90 West St., and 329 W. 83d St., New York, N. Y.
- JONES, W. Clyde (Junior, 1892), Lawyer, Genl. and Pat. Law, Rm. 1610, 105 W. Monroe St., Chicago, Ill., and 2 Rector St., New York, N. Y.
- JONES, Walter J. (1909), Cons. Engr., 30 Church St., New York, N. Y.
- JONES, William Anthony (1906), Mech. Engr., Babcock & Wilcox Co., and *for mail*, West New Brighton, S. I., N. Y.
- JONES, W. Brayton (Associate-Member, 1913), Ch. Draftsman, Robins Conveying Belt Co., 13-21 Park Row Bldg., New York, N. Y., and *for mail*, 38 Quintard Terrace, Stamford, Conn.
- JONES, William R. (1909), Engr. of Constr., Univ. of Pa., 3401 Spruce St., and *for mail*, 550 S. 48th St., Philadelphia, Pa.

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- JORDAN, Samuel S. (1897), Naval Arch. and Engr., Scarborough, Me.
- JORDAN, William Allen (1903; 1912), Efficiency Engr., 50 Church St., New York, N. Y., and *for mail*, 912 Franklin St., Wilmington, Del.
- JOSLYN, Paul L. (1909), Mech. Engr., Union Iron Wks., and 1791 Pine St., San Francisco, Cal.
- JOUGHINS, George Robert (1910), Supt. Rolling Stock, Canadian Government Rys., Moncton, N. B., Canada.
- JOURDIN, Willis Wallace (1912), Ch. Engr. Power Div., Chino Copper Co., Hurley, New Mex.
- JOWETT, J. H. (1907), Genl. Sales Mgr., Ingersoll-Rand Co., 11 Broadway, and 601 W. 113th St., New York, N. Y.
- JOY, Francis B. (Associate, 1895), Genl. Mgr., Detroit Htg. & Ltg. Co., and 340 Garland Ave., Detroit, Mich.
- JOY, Robert (1911), Supt. of Boiler Dept., Kingsford Fdy. & Mch. Wks., Oswego, N. Y.
- JUDD, Horace (1904; 1910), Assoc. Prof. Exper. Engrg., Ohio State Univ., and *for mail*, 281 E. 13th Ave., Columbus, O.
- JUNGREN, Oscar F. (1910), Engr. Turbine Dept., Genl. Elec. Co., and 16 Rugby Rd., Schenectady, N. Y.
- JUNGHANS, Edward K. (1908), Supt. of Fabrication and Ch. Engr., Succession J. Serralles, Central Mercedita, Ponce, P. R.
- JUNKERSFELD, Peter (1910), Asst. to Second V. P., Commonwealth Edison Co., and *for mail*, 120 W. Adams St., Chicago, Ill.
- JURGENSEN, Jess Christian (Associate, 1905), United Piece Dye Wks., Lodi, N. J.
- JUST, George A. (1904), Cons. Engr., and Pres., George A. Just Co., 239 Vernon Ave., Long Island City, and Empire Hotel, New York, also Scarsdale, N. Y.
- KAHN, Julius (1905), Pres., Trussed Concrete Steel Co., Trussed Concrete Steel Bldg., and *for mail*, 104 Lothrop Ave., Detroit, Mich.
- KAIGHN, Herbert Eugene (1913), Ballistic Engr. Exper. Sta., E. I. du Pont de Nemours Powder Co., Henry Clay P. O., and 2600 Harrison St., Wilmington, Del.
- KALES, Wm. Robert (Junior, 1894), Ch. Engr., Whitehead & Kales Iron Wks., Beecher Ave. and Mich. Central R. R., and *for mail*, 195 Burns Ave., Detroit, Mich.
- KALEY, George B. (Junior, 1913), Head Estimator, Taylor-Wharton Iron & Steel Co., High Bridge, N. J.
- KAPY, Artturi A. (Junior, 1903), Factory Inspr., Dist. of Lahti, Lahti, Finland.
- KARR, Ernest M. (1905; 1913), Gifford-Wood Co., and *for mail*, 335 Warren St., Hudson, N. Y.
- KASSANDER, Arno R. (Junior, 1913), Spec. Apprentice, M. P. Dept., Pa. R. R. Co., and *for mail*, P. O. Box 494, Altoona, Pa.

- KASTLER, Edward Louis (Junior, 1913), Mech. Engr., 1824 College Ave., Racine, Wis.
- KATTE, Edwin Britton (1895; 1901), Manager, 1910-1913; Vice-President, 1913-1914; Ch. Engr., Elec. Traction, N. Y. C. & H. R. R. R., 5048 Grand Central Terminal, New York, and Irvington, N. Y.
- KATZENSTEIN, Martin L. (Junior, 1903), Mgr., Marine Dept., Internatl. Steam Pump Co., 115 Broadway, and *for mail*, 52 E. 81st St., New York, N. Y.
- KAUFFMANN, Frederick F. (1911), Asst. to Ch. Engr., N. Y. Shipbuilding Co., and *for mail*, 909 Pine St., Camden, N. J.
- KAUFMAN, Emanuel (Associate, 1902), Metallurgist on Steel, Farmers Bank Bldg., and 201 Murtland Ave., Pittsburgh, Pa.
- KAUP, Wm. Joseph (1900; 1906), Genl. Supvr. Small Tools, Westinghouse Elec. & Mfg. Co., East Pittsburgh, and 423 Hampton Pl., Wilkinsburg, Pa.
- KAVANAUGH, Wm. H. (1902; 1910), Prof. Exper. Engrg., Univ. of Minn., and 124 State St., S. E., Minneapolis, Minn.
- KAVEN, Moses B. (1891), Genl. Supt., United Shoe Mchy. Co., 205 Lincoln St., Boston, and *for mail*, 556 Cabot St., Beverly, Mass.
- KEABLES, Austin Dow (Junior, 1910), with John A. Stevens, Engr., 107 Merrimack St., and *for mail*, 171 Fort Hill Ave., Lowell, Mass.
- KEAN, A. J. A. (1908), Ch. Operating Engr., Guanajuato Power & Elec. Co., Guanajuato, Mex.
- KEARNEY, Alex (1897; 1899), Asst. Supt. M. P., Norfolk & West Ry., and 1111 Henry St., S. W., Roanoke, Va.
- KEARNEY, Edward J. (1913), Kearney & Trecker Co., Milwaukee, Wis.
- KEATING, Daniel A. (1913), Mech. Supt., Am. Tube & Stamping Co., and *for mail*, 893 Seaview Ave., Bridgeport, Conn.
- KEAY, Herbert O. (1913), Prof. Transportation, Head Dept. of Rys., McGill Univ., Montreal, Que., Canada.
- KEELER, Hugh Edward (Junior, 1912), Teaching Asst. in Mech. Engrg., Univ. of Mich., 239 New Engrg. Bldg., and *for mail*, 503 William St., E., Ann Arbor, Mich.
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- KEEP, William John (1893), Vice-President, 1903-1905; Cons. Engr., The Mich. Stove Co., and *for mail*, 753 Jefferson Ave., Detroit, Mich.
- KEIL, Gustave B. (1908), Supt., Federal Sign System (Elec.), Lake and Desplaines Sts., and *for mail*, 4109 N. Paulina St., Chicago, Ill.
- KEILHOLTZ, Pierre Otis (1901), Cons. Engr., Continental Bldg., and 127 W. Lanvale St., Baltimore, Md.
- KEITH, Robert R. (1904; Associate, 1911), Asst. Supt., Sheffield Car Co., and *for mail*, 210 East St., Three Rivers, Mich.

- KEITH, Thomas M. (1905; 1910), Engr., Robins Conveying Belt Co., 21 Park Row, New York, and *for mail*, 1533 President St., Brooklyn, N. Y.
- KELLEMEN, H. F. (1902; 1903), Genl. Mgr., Utica Drop Forge & Tool Co., 2800 Whitesboro St., and *for mail*, 221 Churchill Ave., Utica, N. Y.
- KELLER, E. E. (1894), Vice-President, 1913-1915; Pres., Detroit Insulated Wire Co., and *for mail*, The Pasadena, Detroit, Mich.
- KELLER, J. M. (1913), Ch. Engr., The Otis Steel Co., and *for mail*, 1592 E. 82d St., Cleveland, O.
- KELLER, Joseph F. (1908), Mgr., Keller Mech. Engraving Co., Gair Bldg., 70 Washington St., Brooklyn, and 316 W. 97th St., New York, N. Y.
- KELLER, Wm. H. (Junior, 1908), 1625 29th Ave., W., Calgary, Alberta, Canada.
- KELLEY, Frederick Williams (1905), V. P., Helderberg Cement Co., 100 State St., Albany, N. Y.
- KELLOGG, Alfred S. (1908), Cons. Engr., Boston, and *for mail*, Waverley, Mass.
- KELLOGG, Harry F. (1909), Mgr. of Sales, Whipple Car Co., Rm. 624, 72 W. Adams St., and *for mail*, 5204 University Ave., Chicago, Ill.
- KELLOGG, Morris W. (1913), Pres., The M. W. Kellogg Co., 50 Church St., and 22 E. 63d St., New York, N. Y.
- KELLY, O. W. (1885), Pres., O. S. Kelly Co., and 621 S. Fountain Ave., Springfield, O.
- KELLY, Timothy Joseph (1913), Supt., The Brighton Mills, and *for mail*, 11 Barry Pl., Passaic, N. J.
- KELMAN, John H. (1904), Wks. Mgr., The Canadian Crocker-Wheeler Co., Ltd., St. Catharines, Ont., Canada.
- KEMBLE, Parker H. (1908), Mgr. Commercial Dept., Union Gas & Elec. Co., Cincinnati, O.
- KENDIG, Roscoe B. (1913), Ch. Mech. Engr., N. Y. C. & H. R. R. R., Grand Central Terminal, New York, N. Y.
- KENDRICK, J. W. (1911), Outing Publishing Co., 141 W. 36th St., New York, N. Y., and Steger Bldg., Chicago, Ill.
- KENDRICKEN, Hon. Paul H. (1891), Ingalls & Kendricken, Inc., 80 Sudbury St., and Parker House, Boston, Mass.
- KENERSON, Wm. Herbert (1904), Prof. Mech. Engrg., Brown Univ., and 100 Morris Ave., Providence, R. I.
- KENNEDY, Frank Lowell (1903; 1910), Asst. Prof. Engrg. Drawing, Harvard Univ., and *for mail*, 43 Appleton St., Cambridge, Mass.
- KENNEDY, Harold H. (Junior, 1907), Ch. Engr., The Waverley Co., and Flat A, The Helliker, 1232 Broadway, Indianapolis, Ind.
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- KENNEDY, J. J. (1902), Cons. Engr., 52 Broadway, New York, and 529 Second St., Brooklyn, N. Y.

- KENNEDY, James Edward (1913), Ch. Engr., Hakalau Plantation Co., Hakalau, Hawaii.
- KENNEDY, Julian (1912), Cons. Mech. Engr., 1217 Bessemer Bldg., Pittsburgh, Pa.
- KENNEDY, M. E. (Junior, 1906), Secy. and Asst. Supt., Kennedy Valve Mfg. Co., E. Water St., Elmira, N. Y.
- KENNEDY, William A. (Junior, 1908), Testing Engr., Genl. Fire Extinguisher Co., and *for mail*, 31 Forest St., Providence, R. I.
- KENNEDY, William Percival (1913), Cons. Engr., 1790 Broadway, and Hotel Flinders, 135 W. 47th St., New York, N. Y.
- KENNER, Ernest Rodham (Junior, 1912), Sales Engr., Allis-Chalmers Mfg. Co., 1121 Schofield Bldg., and Suite 3, 1648 E. 73d St., Cleveland, O.
- KENNEY, Lewis H. (1904; 1911), Draftsman-in-Charge Mchy. Div., Navy Yard, Philadelphia, Pa.
- KENRICK, Alfred Eugene (1896), Kenrick Bros., 214 Washington St., and *for mail*, 71 Gorham Ave., Brookline, Mass.
- KENT, Edward R. (Junior, 1913), Yale & Towne Mfg. Co., Stamford, Conn.
- KENT, Henry R. (1901), Rm. 609, 141 Broadway, New York, N. Y., and Gordonhurst Ave., Upper Montclair, N. J.
- KENT, James M. (1900), Elec. and Mech. Engr., Instr. in Applied Steam and Elec., Manual Training H. S., and 2446 Harrison St., Kansas City, Mo.
- KENT, Robert Sayre (1901), Designing, Supvg. and Operating Engr., Mechanics Bank Bldg., and 253 80th St., Brooklyn, N. Y.
- KENT, Robert Thurston (Junior, 1905), Editor, Industrial Engineering, 120 W. 32d St., New York, N. Y., and *for mail*, 535 Church St., Bound Brook, N. J.
- KENT, William (1880), Manager, 1885-1888; Vice-President, 1888-1890; Cons. Engr., 120 W. 32d St., New York, N. Y., and 535 Church St., Bound Brook, N. J.
- KENYON, Alfred Lewis (1904), 1105 Chemical Bldg., St. Louis, Mo.
- KENYON, Wm. Houston (1909), Member of Firm, Kenyon & Kenyon, 49 Wall St., New York, N. Y.
- KEOUGH, William T. (1900), Life Member; Business Agt., Boston Pub. Schs., 168 Tremont St., Boston, and *for mail*, 90 Hastings St., West Roxbury, Mass.
- KEOWN, Robert McArdle (1913), Asst. Prof. Mch. Design, Univ. of Wis., and *for mail*, 118 Spooner St., Madison, Wis.
- KERINS, John Stewart (Junior, 1912), Draftsman, N. Y. Edison Co., and *for mail*, 993 Summit Ave., New York, N. Y.
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- KERR, C. V. (1892), Sales Engr., A. S. Cameron Steam Pump Wks., 11 Broadway, New York, N. Y.
- KERR, Eugene W. (1902; 1908), Prof. Mech. Engrg., La. State Univ., and 915 Boyd Ave., Baton Rouge, La.

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- KERR, William Jones (Junior, 1913), Ch. Draftsman, Green Engrg. Co., 28 E. Jackson St., and *for mail*, 2319 Montrose Blvd., Chicago, Ill.
- KESSLER, Armin Geo. (Junior, 1909), Mgr., Lakeside Forge Co., and *for mail*, 910 Chestnut St., Erie, Pa.
- KETCHUM, Samuel (Associate, 1908), Ch. Draftsman, M. H. Treadwell Co., 140 Cedar St., New York, N. Y., and 50 High St., Glen Ridge, N. J.
- KEUFFEL, Carl W. (Junior, 1913), 610 Hudson St., Hoboken, N. J.
- KEYES, Frederic Hale (1902), Mechlin & Starr, Arch. Engrs., Wilkins Bldg., Washington, D. C.
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- KIMBALL, Clinton (1913), Mech. Engr., Vinegar Hill Zinc Co., and *for mail*, 508 W. Pine St., Platteville, Wis.
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- KIMBALL, Richard D. (1906), 6 Beacon St., Boston, and 304 High St., West Medford, Mass.
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- KING, George I. (1901), 114 N. Union St., Middletown, Pa.
- KING, Matthew Leander (1912), Mgr., David Bradley Mfg. Wks. of Sears Roebuck & Co., Bradley, and 148 N. Evergreen Ave., Kankakee, Ill.
- KING, Roy Stevenson (1904; 1910), Ellendale, N. D.
- KING, W. Grant (1894; 1904), Pres., King Sewing Mch. Co., 90 Welland St., and 101 Chapin Parkway, Buffalo, N. Y.
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- KINGSLEY, Frank (1910), Assoc. Editor, Electric Railway Journal, 239 W. 39th St., New York, and *for mail*, 94 Neptune Park, New Rochelle, N. Y.
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- KIPP, Alfred Ristine (1906), Mech. Supt., Soo Line, North Fond du Lac, and R. D. 6, Fond du Lac, Wis.
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- KLEPINGER, John Henry (1907), Asst. Supt. B. and M. Reduction Dept., Anaconda Copper Min. Co., Great Falls, Mont.
- KLIESRATH, Victor William (1912), Ch. Engr., Bosch Magneto Co., 223 W. 46th St., New York, and Port Washington, L. I., N. Y.
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- KNOWLES, Morris (1907), Cons. Engr., 2548 Oliver Bldg., and Dir. Dept. Sanitary Engrg., Univ. of Pittsburgh, and 5814 Stanton Ave., Pittsburgh, Pa.
- KNOWLTON, Frederic K. (Junior, 1904), V. P., M. D. Knowlton Co., and V. P., Auburn Ball Bearing Co., Rochester, and *for mail*, The Pines, East Ave., Pittsford, N. Y.
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- KOCH, George B. (1909), Genl. Foreman, South Altoona Foundries, Pa. R. R. Co., and *for mail*, 809 Chestnut St., Altoona, Pa.
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- KOENIG, Adolph G. (Associate, 1909), Member of Firm, Mortensen & Co., 114-116 E. 28th St., New York, N. Y., and 43 Eldorado Pl., Weehawken, N. J.
- KOEPPEL, Edward (1913), Supt. Stamp Mills, Copper Range Consld. Co., Beacon Hill, Mich.
- KOESTER, Herman (1911; 1913), Mech. Supt., The Bristol Co., and *for mail*, 46 Columbia Blvd., Waterbury, Conn.
- KOHLER, David S. (1900), Genl. Supt., Oliver Iron & Steel Co., and 1138 Portland St., E. E., Pittsburgh, Pa.
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- KONSTANKEWICZ, Michael John (Junior, 1911), Mech. Engr., Strathmore Paper Co., Mittineague, and *for mail*, 298 Park St., West Springfield, Mass.
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- KRAUSE, Arthur E. (1887), Struc. and Mech. Engr., 345 Fairmount Ave., Jersey City, N. J.
- KREBS, A. Sonnin (1901; Associate, 1905), The Krebs Pigment & Chem. Co., Newport, Del.
- KREHBIEL, Frederick A. (Associate, 1902), Pres., Krehbiel Co., 1712 Marquette Bldg., Chicago, and 188 N. Lincoln Ave., Hinsdale, Ill.
- KREISINGER, Henry (1912), Engr., U. S. Bureau of Mines, 40th and Butler Sts., and 826 Highview St., Pittsburgh, Pa.
- KREMER, Waldemar Rudolph (1912), Adv. Mech., Elec. and Refrigerating Engr., The Vilter Mfg. Co., 872 Clinton St., and 679 Marshall St., Milwaukee, Wis.
- KRESSLER, Oscar (1913), Maintenance Engr., The Natl. Cash Register Co., Dayton, O.
- KRETSCHMER, Frederick G. (Associate, 1895), Prop. F. G. Kretschmer & Co., Gutleustr. 2, and *for mail*, Gallus-Anlage 1, Frankfort-on-Main, Germany.
- KROTO, George (1908), Ch. Mech. Engr., Takata & Co., 57 Bishopsgate, London, E. C., England.
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- KUNZE, Edward J. (1907), Asst. Prof. Mech. Engrg., in Charge of Mch. Design and Constr., Mich. Agri. College, East Lansing, Mich.
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- KUTTER, H. L. (1902; 1907), Secy., Sales Mgr. and Engr., The Black-Clawson Co., and *for mail*, 843 Dayton St., Hamilton, O.
- KUWADA, Gompel (1900), Engr. and Ch. of Distribution Dept., Osaka Gas Co., Osaka, Japan.
- KWANG, Kwong Yung (1899), Life Member; Dir. and Engr., Lincheng Mines, Lincheng, via Peking, North China.
- LACOUNT, Henry Osgood (1907), Engr. and Asst. Secy. Inspc. Dept., Asso. Factory Mut. Fire Ins. Co., 31 Milk St., Boston, and *for mail*, 124 College Ave., West Somerville, Mass.
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- LAGER, Carl Axel (Junior, 1893), Supt., Morris Mch. Wks., Baldwinsville, N. Y.
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- LAKEY, Arthur Benjamin (Associate-Member, 1913), Draftsman, Elec. Boat Co., Groton, Res., 121 Broad St. and *for mail*, P. O. Box 282, New London, Conn.
- LAMAR, Philip Rucker (1911), The So. Cotton Oil Co., Savannah Bank & Trust Co. Bldg., Savannah, Ga.
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- LANE, Arthur M. (1903), Asst. Engr. Genl. Drawing Room, Am. Loco. Co., and *for mail*, 32 Union Ave., Schenectady, N. Y.

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- LANE, Henry Marquette (1900), Cons. Fdy. Engr., Pres., The H. M. Lane Co., 18 Piquette Ave., E., Detroit, Mich.
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- LAPAT, Leopold (Junior, 1908), Erecting Engr., Henry R. Worthington, Harrison, and *for mail*, 249 Godwin St., Paterson, N. J.
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- LARKIN, William H., Jr. (1904), Mech. Engr., Revere Rubber Co., and 91 Tudor St., Chelsea, Mass.
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- LAWRENCE, Samuel Eugene (Junior, 1909), Junior Mech. Engr., U. S. Engr. Dept., Louisville, Ky., and 723 N. 12th St., Fort Smith, Ark.
- LAWRENCE, Schuyler (1902), Cons. Min. Engr., P. O. Box 3, and 116, Calle 39, Chihuahua, Mex.
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- LAZELL, Ellis Warren (1912), Cons. Engr., Edwards & Lazell, 426-429 Ry. Exch. Bldg., and 350 N. 32d St., Portland, Ore.
- LEA, Henry I. (1906; 1909), Cons. Gas Engr., 1350-1352, 1354 Peoples Gas Bldg., and 825 Leland Ave., Chicago, Ill.
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- LEE, Wm. F. (1907), Ch. Engr., C. W. Hunt Co., West New Brighton, S. I., N. Y.
- LEE, William States (1907), Ch. Engr., So. Power Co., Trust Bldg., Charlotte, N. C.
- LEEPER, Ralph W. (Junior, 1908), Genl. Elec. Co., Provident Bank Bldg., Cincinnati, O.

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- LELAND, Sanford Daniels (1900), Pres. and Genl. Mgr., Mfg. Equip. & Engrg. Co., 209 Washington St., Boston, and *for mail*, 6 Arlington Rd., Wellesley Hills, Mass.
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- LINDSTROM, Charles A. (1891), Asst. to Pres., Pressed Steel Car Co., Farmers Bank Bldg., and West. Steel Car & Fdy. Co., of Chicago, Ill., and 138 Stratford Ave., E. E., Pittsburgh, Pa.

- LINDSTROM, J. A. (1911), Struc. Engr., Genl. Chem. Co., 25 Broad St., New York, and *for mail*, 95 Seventh Ave., Brooklyn, N. Y.
- LINDSTROM, Nils Oscar (1903), Supt., A. B. See Elec. Elev. Co., Pacific Ave. and Forest St., Jersey City, and *for mail*, 121 High St., West Nutley, N. J.
- LINKER, Abraham (Junior, 1913), Sales Engr., Edwin Burhorn Co., 71 Wall St., New York, and *for mail*, 1943 Atlantic Ave., Brooklyn, N. Y.
- LINSLEY, Edward B. (1913), Mgr., Sheffield Car Co., Three Rivers, Mich.
- LIPPS, Henry, Jr. (1888; 1891), Contr. Engr., 683 Rosewood St., Williamsbridge, New York, and *for mail*, 127 Park Ave., Mt. Vernon, N. Y.
- LISTER, Alfred (1913), Mech. Supt., Clark Thread Co., and Clark Mile-End Spool Co., Newark, N. J.
- LISTER, Robt. Ramsbottom (1894), Life Member; Prop., Greenbank Steam Laundry, Gatley, Cheshire, and *for mail*, 11 Athol Rd., Alexandra Park, Manchester, England.
- LITTLE, Arthur Dehon (1912), Chem. Engr., Pres. and Mgr., Arthur D. Little, Inc., 93 Broad St., Boston, and 107 Upland Rd., Brookline, Mass.
- LITTLE, Chas. Henry (Associate, 1904), Mgr., Universal Drafting Mch. Co., Cleveland, and *for mail*, 29 Rosalind Ave., East Cleveland, O.
- LITTLE, James Edwin (1913), Mech. Engr., The Spanish-Am. Iron Co., Steelton, Pa.
- LIVINGSTON, Robert R. (1906), Cons. and Constr. Engr., 2 Rector St., New York, N. Y.
- LOBBEN, Peder (1895), Mech. Engr., 289 A St., Boston, Mass.
- LOBER, William D. (1911), Secy. and Treas., Vulcanite Portland Cement Co., 1230 Land Title Bldg., Philadelphia, and 234 Church Rd., Ardmore, Pa.
- LOCK, Robert (Associate, 1913), Pres. and Mgr., Apollo Steel Co., Apollo, Pa.
- LOCKERY, Charles E. (Associate, 1911), Staff Asst., F. W. Bird & Co., East Walpole, and *for mail*, Plimpton St., Walpole, Mass.
- LOCKETT, Andrew Moore (1900), Pres., A. M. Lockett & Co., Ltd., 533 Baronne St., and 1639 Robert St., New Orleans, La.
- LOCKETT, Kenneth (1904; 1907; 1913), V. P., Orr & Lockett Hdw. Co., 14-16 W. Randolph St., and 5116 Dorchester Ave., Chicago, Ill.
- LOCKWOOD, Burns D. (1907), Ch. Engr., Pressed Steel Car Co., Farmers Bank Bldg., Pittsburgh, and *for mail*, 515 Orchard Ave., Bellevue, Allegheny Co., Pa.
- LOCKWOOD, Edwin H. (1890; 1903), Asst. Prof. Mech. Engrg., S. S. S., Yale Univ., and *for mail*, 52 Division St., New Haven, Conn.
- LOCKWOOD, James Fred (1889; 1907), Mgr., Security Elev. Safety Co., 126 W. 18th St., New York, and *for mail*, 678 McDonough St., Brooklyn, N. Y.

- LOCKWOOD, Rutherford T. (Junior, 1904), Asst. Supt., Sone & Fleming Wks., Stand. Oil. Co. of N. Y., Kingslands and Meserole Ave., and *for mail*, 144 Milton St., Brooklyn, N. Y.
- LOCKWOOD, Ryland Leonard (1913), Pres., Lockwood & Almqvist, Inc., 1 Madison Ave., New York, and 1050 Park Pl., Brooklyn, N. Y.
- LODETTI, Frank Emil (Junior, 1902), Cons. Engr., via Pallavicino 29, Milan, Italy.
- LODGE, Wm. (1890), Pres., Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave., and 800 Ridgway Ave., Cincinnati, O.
- LOEB, Leo (Junior, 1911), Mech. Engr., Naval Engrg. Exper. Sta. Annapolis, Md.
- LOEPSINGER, Albert John (1908; 1913), Mech. Engr., Genl. Fire Extinguisher Co., and *for mail*, 41 Atlantic Ave., Providence, R. I.
- LOEWENSTEIN, Louis C. (1913), Engr., Genl. Elec. Co., and *for mail*, 16 Walcott Rd., Lynn, Mass.
- LOF, Otto J. (Associate, 1913), Expt. in Grinding and Grinding Wheels in Europe for Norton Co. of Worcester, Mass., 74 Mühlenstr., Pankow, Berlin, Germany.
- LOFTS, David (1901), Constr. Engr., Am. Steel Foundries, and *for mail*, 4467 Woodlawn Ave., Chicago, Ill.
- LOGAN, Frank J. (1894), V. P. and Treas., Logan Iron Wks., Commercial St., and 285 DeKalb Ave., Brooklyn, N. Y.
- LOGAN, James (Associate, 1904), First V. P. and Genl. Mgr., U. S. Envelope Co., 75 Grove St., and *for mail*, 222 Salisbury St., Worcester, Mass.
- LOGAN, John D. (1892), Life Member; Cons. Engr., P. O. Box 223, Hillsdale, N. Y.
- LOGAN, John W. (1894; 1899; 1904), Mgr. Steel Wks. Dept., Alan Wood, Iron & Steel Co., Conshohocken, Pa.
- LOGAN, Wm. J. (1880), Life Member; Logan Iron Wks., Commercial and Clay Sts., Brooklyn, N. Y.
- LONDON, William James Albert (1910), Ch. Engr., Terry Steam Turbine Co., Hartford, Conn.
- LONG, Jeremiah C. (1905), Ch. Engr., Boston Woven Hose & Rubber Co., Cambridge, and *for mail*, 2 Emery St., Everett, Mass.
- LONG, L. Guy (1913), Mech. Engr., Fairbanks-Morse Elec. Mfg. Co., and *for mail*, 1906 Commerce Ave., Indianapolis, Ind.
- LONGACRE, Fredk. v. D. (1911), Ch. Engr. Elec. Dept., Ingersoll-Rand Co., 11 Broadway, New York, and 40 Greystone Park, Yonkers, N. Y.
- LONGENECKER, Charles (1892), Pres., Chas. Longenecker & Co., 150 Nassau St., New York, and 46 Sidney Pl., Brooklyn, N. Y.
- LONGSTRETH, Charles (1899), Pres., U. S. Metallic Packing Co., 427 N. 13th St., Philadelphia, and Lansdowne, Pa.
- LONGWELL, Henry E. (1901), Cons. Engr., Westinghouse Mch. Co., East Pittsburgh, and 7225 Meade St., Pittsburgh, Pa.
- LOOMIS, Burdett, Jr. (1904), 843 Prospect Ave., Hartford, Conn.

- LOOMIS, Evarts Greene (1913), Mech. Engr., The Arlington Co., Arlington and *for mail*, 678 Highland Ave., Newark, N. J.
- LORD, Caleb Wheeler (1913), Prop., Nicetown Plate Washer Co., 1824 W. Juniata St., Philadelphia, Pa.
- LORD, Charles Edward (1909), Genl. Pat. Atty., Internatl. Harvester Co., 606 S. Michigan Ave., Chicago, and 515 Central Ave., Wilmette, Ill.
- LORD, Harold S. (Junior, 1913), 1049 Beacon St., Boston, Mass.
- LORD, John E. (1904), Dist. Mgr., Buckeye Eng. Co., 1249 Marquette Bldg., and *for mail*, 6215 Rhodes Ave., Chicago, Ill.
- LORENZ, Wm. A. (1899), Mech. Engr. and Solicitor of Patents, 60 Prospect St., and 96 Garden St., Hartford, Conn.
- LORING, Ernest Johnson (1912), Genl. Elec. Co., Lynn, and *for mail*, 76 Highland Ave., Somerville, Mass.
- LORING, Harrison, Jr. (1910), Treas. and Mech. Engr., R. S. Brine Transportation Co., 43 India St., Boston, and 31 Crawford St., Roxbury, Mass.
- LORSCH, Edwin S. (1903), Member of Firm, Sussfeld, Lorsch & Co., 90-94 Maiden Lane, and 2 W. 89th St., New York, N. Y.
- LOSS, Henrik V. (1892), Cons. Engr., North Am. Bldg., Philadelphia, Pa.
- LOTHROP, Marcus T. (Junior, 1908), Timken Roller Bearing Co., Canton, O.
- LOUD, Henry S. (1901), Ch. Engr., U. S. Wood Preserving Co., 165 Broadway, New York, N. Y.
- LOUDON, Andrew Charles (Junior, 1913), Assoc. Editor, Railway Age-Gazette, Woolworth Bldg., New York, N. Y.
- LOUER, Lewis S. (Associate, 1900), West. Mgr., F. W. Dodge Publishing Co., 842 Monadnock Bldg., Chicago, Ill.
- LOUTREL, Cyrus Henry (Junior, 1912), Asst. Factory Mgr., Natl. Lock Washer Co., and *for mail*, 65 Johnson St., Newark, N. J.
- LOVEJOY, Frank Wm. (Junior, 1901), Genl. Mgr. Mfg. Depts., Eastman Kodak Co., and Seneca Parkway, Rochester, N. Y.
- LOVELAND, George Edmund (1913), Ch. Draftsman and Structural Designer, N. J. Zinc Co., and *for mail*, 243 Lafayette St., Palmerton, Pa.
- LOVELL, Alfred (1899), Cons. Engr., 619 Harrison Bldg., and 31 Sellers Ave., W. Market St. Sta., Philadelphia, Pa.
- LOW, Fred. R. (1886; 1912), Editor, Power, 505 Pearl St., New York, N. Y., and 256 Harrison St., Passaic, N. J.
- LOWE, Henry Leland (Junior, 1903), 1148 Pierce Bldg., St. Louis, Mo.
- LOWE, Raymond Manley (1913), Ch. Draftsman, Kelly Filter Press Co., 210 Felt Bldg., and 415 S. W. Temple St., Salt Lake City, Utah.
- LOWE, Wm. Vose (1889; 1892), Engr. and Salesman, Hess-Bright Mfg. Co., Philadelphia, Pa., and *for mail*, Box 387, 27 Mechanic St., Fitchburg, Mass.
- LOWELL, George C. (1913), Supt. Coke Plant, Ill. Steel Co., and *for mail*, 744 Jackson St., Gary, Ind.

- LOWER, Nathan M. (1913), Mech. Engr., Loco. Stoker Co., Schenectady, N. Y.
- LOYD, John (1899), Pres., John Loyd Co., 558-562 Water St., New York, and 149 Taylor St., Brooklyn, N. Y.
- LUCAS, Henry M. (1904), Lucas Mch. Tool Co., E. 99th St. and L. S. & M. S. R. R., Cleveland, and *for mail*, 82 Page Ave., East Cleveland, O.
- LUCKE, Charles E. (1903; 1908), Prof. Mech. Engrg., Columbia Univ., and 544 W. 142d St., New York, N. Y.
- LUCKENBACH, Owen Francis (1913), Supt. Genl. Mfg. Dept., Oil Well Supply Co., P. O. Box 366, Oil City, Pa.
- LUDEMAN, Edwin Henry (Associate, 1904), Steam Engr., 165 Broadway, New York, and *for mail*, 810 E. 19th St., Brooklyn, N. Y.
- LUDLOW, Charles G. (1902), West. Mgr., Crosby Steam Gage & Valve Co., Great Lakes Bldg., 180 N. Market St., and 743 Montrose Ave., Chicago, Ill.
- LUDY, Llewellyn V. (1905), Prof. Exper. Engrg., Purdue Univ., and 229 University St., Lafayette, Ind.
- LUEHRS, Daniel Michael (Junior, 1907), Engr. in Charge Air Washer Dept., Am. Blower Co., and *for mail*, 282 Park View Ave., Detroit, Mich.
- LUFKIN, Elgood Chauncey (1896), V. P., the Tex. Co., 17 Battery Pl., New York, N. Y.
- LUHN, Clarence W. (Junior, 1913), Teacher of Manual Training, Hughes High Sch., and *for mail*, 4614 Simpson Ave., Cincinnati, O.
- LUHR, Otto (1907), Cons. Engr., 154 W. Randolph St., and *for mail*, 4024 Clarendon Ave., Chicago, Ill.
- LUMMIS, Charles W. (Associate, 1907), Asst. Mgr. Gas Producer Dept., Morgan Constr. Co., and *for mail*, 656 S. Main St., Worcester, Mass.
- LUNDGAARD, Ivar (Junior, 1909), Industrial Engr., Rochester Ry. & Light Co., 34 Clinton Ave., N., and 208 Culver Rd., Rochester, N. Y.
- LUNDGREN, Charles G. (1910), M. M., Natl. Tube Co., and *for mail*, 1018 Eighth St., Lorain, O.
- LUNGER, Waldo G. (1901; 1911), Mgr. Furnace Dept., Am. Shop Equip Co., 332 S. Michigan Ave., Chicago, and 933 Hinman Ave., Evanston, Ill.
- LUTHER, Flavel Sweeten (1898), Pres., Trinity College, and *for mail*, 115 Vernon St., Hartford, Conn.
- LUTHER, Stephen Grinnell (1907), The Philadelphia Rubber Wks. Co., Land Title Bldg., and *for mail*, 1135 Spruce St., Philadelphia, Pa.
- LYALL, Wm. L. (1887; 1893), Treas., Brighton Mills, and 349 Ayerig Ave., Passaic, N. J.
- LYDECKER, Kenneth (Junior, 1911), Maywood, N. J.
- LYLE, Joel Irvine (1906), Mgr., Carrier Air Conditioning Co., 39 Cortlandt St., New York, N. Y., and 1200 W. 7th St., Plainfield, N. J.

- LYMAN, Dwight E. (1901), Supt., Asa S. Cook Co., 80 Huyshope Ave., and 30 Annawan St., Hartford, Conn.
- LYMAN, Elihu Root (Junior, 1904), Asst. Wks. Mgr., Dexter Folder Co., Pearl River, N. Y.
- LYMAN, James (1899), Sargent & Lundy, cor. Jackson and Michigan Blvds., Chicago, and 1308 Maple Ave., Evanston, Ill.
- LYNN, Thomas H. (Junior, 1913), Sales Mgr., Lycoming Fdy. & Mch. Co., and 410 Third Ave., Williamsport, Pa.
- LYON, Jesse D. (1913), Engr., 2216 Union Central Bldg., and 3265 Menlo Ave., Cincinnati, O.
- LYON, Tracy (1893), Genl. Mgr., Cricket Cycle Car Co., 88 Congress St., E., and Pasadena Apts., Detroit, Mich.
- LYONS, James W. (1902), Pres., Lyons Atlas Co., and *for mail*, 3516 Central Ave., Indianapolis, Ind.; also, Pres., Lyons Boiler Wks., DePere, Wis.
- McALLISTER, Addams S. (1913), Editor, Electrical World, 239 W. 39th St., New York, N. Y.
- McALLISTER, Daniel Handley (1911), Constr. Supt., Utah Power & Light Co., Kearns Bldg., Salt Lake City, Utah.
- McARTHUR, Arthur Royal (1906), Res. Engr., Am. Sheet & Tin Plate Co., and *for mail*, 674 Harrison St., Gary, Ind.
- McARTHUR, Robt. (1894), 34 Jefferson St., Biddeford, Me.
- McBANE, Walter Watson (Associate, 1908), Engr., The William Tod Co., and *for mail*, 525 Bryson St., Youngstown, O.
- McBRIDE, James (1886), Life Member; Ch. Engr., Stamford Mfg. Co., and *for mail*, 80 Greyrock Pl., Stamford, Conn.
- McBRIDE, Thomas C. (1908), Sales Mgr., Internatl. Steam Pump Co., North Am. Bldg., and 240 W. Cheltenham Ave., Philadelphia, Pa.
- McCALLISTER, Edgar W. (1912), The Westinghouse Mch. Co., East Pittsburgh, Pa.
- McCANN, Warren Edward (Junior, 1910), Asst. to Supt. of Foundries, Bethlehem Steel Co., South Bethlehem, and *for mail*, 109 E. Washington Lane, Germantown, Philadelphia, Pa.
- McCARTE, Alexander James (Junior, 1912), Mech. Engr., Ideal Cocoa & Chocolate Co., and *for mail*, P. O. Box 148, Lititz, Pa.
- McCARTHY, Harry (1909), Ch. Draftsman, Natl. Tube Co., and *for mail*, 600 E. Prospect St., Kewanee, Ill.
- McCARTY, Frank James (Junior, 1912), Designing Engr., Tate, Jones & Co., Inc., 1007 Empire Bldg., Pittsburgh, and *for mail*, 17 Center Ave., Ingram, Pa.
- McCARTY, Richard J. (1901), V. P., K. C. So. Ry. Co., Thayer Bldg., and *for mail*, 3820 Warwick Blvd., Kansas City, Mo.
- McCLATCHEY, A. F. (1889), 132 N. 4th St., Aurora, Ill.
- McCLELLAN, William (1905), 141 Broadway, New York, and White Plains, N. Y.
- McCLELLAND, Cory Chalmer (Junior, 1913), Engr., Tenn. Power Co., 1315 Hamilton Bank Bldg., Chattanooga, Tenn., and 314 W. Lincoln St., Findlay, O.

- McCLELLAND, E. S. (1891; 1898), Engr. Gas and Steam Engs., The Westinghouse Mch. Co., and *for mail*, 6837 Thomas Blvd., Pittsburgh, Pa.
- McCLINTOCK, Allan P. (Associate-Member, 1913), The Babcock & Wilcox Co., and *for mail*, 219 Ave. A, Bayonne, N. J.
- McCLINTOCK, Edward H. (1901; 1905)) Engr. and Arch., McClintock & Craig, 33 Lyman St., Springfield, and Westfield Rd., West Springfield, Mass.
- McCLURE, O. D. (1907), M. M., Cleveland-Cliffs Iron Co., Ishpeming, Mich.
- McCOLL, J. R. (1903), Member of Firm, Ammerman, McColl & Anderson, Cons. Engrs., 1310 Penobscot Bldg., and Dean Engrg. Dept., Univ. of Detroit; also, 195 Chicago Blvd., Detroit, Mich.
- McCOLLUM, Caleb Addison (Junior, 1911), Exper. Engr., Carnegie Steel Co., Homestead Steel Wks., Munhall, and *for mail*, 463 Ella St., Wilkinsburg, Pa.
- McCONNELL, Malcolm Findley (1913), Supt. Mingo Steel Wks. and Furnaces, Carnegie Steel Co., and *for mail*, Box 179, Mingo Junction, O.
- McCONNELL, Robert Steffan (1913), Asst. to Mech. Engr., The Baldwin Loco. Wks., 500 N. Broad St., and 3328 N. 16th St., Philadelphia, Pa.
- McCORMACK, Leonard J. (Junior, 1913), Industrial Engr., Van Gelder Knoepfel & Young, 55 Liberty St., New York, N. Y., and Dumont, N. J.
- McCOY, William (Junior, 1903), Mech. Engr., Am. Encaustic Tiling Co., and *for mail*, 409 Locust Ave., Zanesville, O.
- McCRARY, John Adger (1912), Draftsman and Asst. to Genl. Supt., The Mathieson Alkali Wks., Saltville, Va.
- McCREERY, James Harold (Junior, 1910), 1772 Fulton Bldg., 50 Church St., New York, N. Y., and *for mail*, 121 Paulison Ave., Passaic, N. J.
- McCULLOCH, Alexander (1912), New London Ship & Eng. Co., and *for mail*, 256 Connecticut Ave., New London, Conn.
- McCULLOCH, John A. (1912), Engr. Galvanizing Plant, Natl. Wks., Natl. Tube Co., and *for mail*, Juniper and 2d Sts., Versailles Sta., McKeesport, Pa.
- McCULLOCH, Richard (1913), V. P. and Asst. Genl. Mgr., United Rys. Co. of St. Louis, and *for mail*, 3869 Park Ave., St. Louis, Mo.
- McDEVITT, Frank J. (Junior, 1906), Dist Mgr., Elliott Co., and Liberty Mfg. Co. of Pittsburgh, Pa., 1985 Ry. Exch. Bldg., and 4503 McPherson St., St. Louis, Mo.
- McDEWELL, Horatio S. (Junior, 1908), Gas Eng. Erecting Engr., Allis-Chalmers Co., Milwaukee, Wis., and *for mail*, The Admaston, 251 W. 89th St., New York, N. Y.
- McDOUGALL, Andrew Horace (1908), Ch. Engr., Whiting Fdy. Equip. Co., and *for mail*, 119 155th St., Harvey, Ill.
- McDOWELL, Edward C. (1913), Mech. Engr., Natl. Steel Car Co., Ltd., Hamilton, Ont., Canada.

- McELROY, James Finney (1900), Cons. Engr., Consld. Car Htg. Co., 423 N. Pearl St., and *for mail*, 131 Lake Ave., Albany, N. Y.
- McELROY, Joseph A. (1895), Pres., Empire Constr. Co., and *for mail*, Elmcrest, Norwalk, Conn.
- McEWEN, J. H. (1882), Pres. and Genl. Mgr., McEwen Bros., Wellsville, N. Y., and Pres. and Genl. Mgr., McEwen Mfg. Co., Tulsa, Okla.
- McFARLAN, Edward (Junior, 1908), 360 Jefferson Ave., Brooklyn, N. Y.
- McFARLAND, A. R. (1902), Wks. Mgr., Solvay Process Co., and 609 Willis Ave., Syracuse, N. Y.
- McFARLAND, Walter M. (1883), Vice-President, 1905-1907; Babcock & Wilcox Co., 85 Liberty St., New York, N. Y.
- McFARLANE, George William (1913), Ch. Engr., Penmans Ltd. and *for mail*, P. O. Box 137, Paris, Ont., Canada.
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- McGIFFERT, John Rutherford (1907), Secy. and Treas., Clyde Iron Wks., and 2324 E. 5th St., Duluth, Minn.
- McGLONE, Roy G. (Junior, 1909), U. S. Junior Mech. Engr., U. S. Engr. Dept., Trust Co. Bldg., and 213½ Tremont St., Galveston, Tex.
- McGREGOR, Alexander Grant (1905; 1912), Member of Firm, Repath & McGregor, Engrs., Douglas, Ariz.
- McGREGOR, Hugh R. (1903), Mech. Supt., Brown & Sharpe Mfg. Co., and *for mail*, 75 Holden St., Providence, R. I.
- McGREGOR, John A. (1902), Pres., Union Twist Drill Co., and *for mail*, 1328 Main St., Athol, Mass.
- McGWIRE, Charles H. (1909), Cons. Mech. and Elec. Engr., 3936 Trinity St., Los Angeles, Cal.
- McILHENNEY, William (1913), Ch. Operating Engr., Ingersoll-Rand Co., and 125 N. 3d St., Phillipsburg, N. J.
- McILVRID, James (Associate, 1913), Genl. Mgr. and Supt., The Cockburn, McIlvrid Corp., 12th and Monmouth Sts., and *for mail*, 46 Armstrong Ave., Jersey City, N. J.
- McINTOSH, John E. (1901), Auburn, N. Y.
- McINTOSH, Robert (1913), Engr., Calumet & Hecla Min. Co., and 1 Poplar St., Calumet, Mich.
- McINTOSH, Robert L. (1913), McCord & Co., 1905 Peoples Gas Bldg., Chicago, Ill.
- McINTOSH, Samuel Fraser (1912), Constr. Engr., 1401 Turks Head Bldg., and 230 Butler Ave., Providence, R. I.
- McINTOSH, Walter S. (Associate, 1911), Wks. Mgr., S. A. Woods Mch. Co., Boston, and *for mail*, 29 Westover St., West Roxbury, Mass.
- McINTOSH, William (1902), 25 Willow Ave., Plainfield, N. J.
- McIVER, Alexander (1913), Westinghouse Elec. & Mfg. Co., 165 Broadway, New York, N. Y.

- McJILTON, John Perkins (Junior, 1910), Draftsman, Loco. Superheater Co., 30 Church St., and *for mail*, 4289 Park Ave., New York, N. Y.
- McKEAN, Robert Andrews (1895), Supt. Keystone Wks., Jones & Laughlin Steel Co., 3140 Second Ave, and *for mail*, 714 S. Negley Ave., Pittsburgh, Pa.
- McKECHNIE, Robert R. (1897), Mech. Engr., The Variety Iron & Steel Wks. Co., Cleveland, and *for mail*, South Euclid, O.
- McKEE, Arthur Glenn (1907), Cons. and Contr. Engr., 1303 Rockefeller Bldg., and 1654 E. 115th St., Cleveland, O.
- McKEE, Jno. F. (Junior, 1911), Mech. Engr., Genl. Fire Extinguisher Co., North Charlotte, and 1300 S. Blvd., Charlotte, N. C.
- McKEE, Joseph J. (Associate, 1892), Mgr., C. A. Dunham Co., 5013 Metro. Life Bldg., and The Riviera, 157th St. and Riverside Drive, New York, N. Y.
- McKEE, Neal Trimble (1907; 1912), Asst. Mech. Engr., Loco. Superheater Co., 30 Church St., New York, and Dobbs Ferry, N. Y.
- McKEE, Robert A. (1908), Mgr. and Ch. Engr., Steam Turbine Dept., Allis-Chalmers Co., and *for mail*, 2311 Grand Ave., Milwaukee, Wis.
- McKEE, Walter Smart (1912), V. P., Edgar Allen Am. Manganese Steel Co., 1850 McCormick Bldg., and 2142 Lincoln Park West, Chicago, Ill.
- McKEEN, Wm. R. (1908), Pres. and Genl. Mgr., McKeen Motor Car Co., and 5343 Leavenworth St., Omaha, Neb.
- McKENNAN, Jacob Bowman (Junior, 1899), Mgr., Minnequa Wks., Colo. Fuel & Iron Co., and 2016 Oakland Ave., Pueblo, Colo.
- McKIBBEN, H. B. (Junior, 1910), Constr. Engr., Deer Lodge, Mont.
- McKIEVER, William Henry (1900), Htg., Ventilating, Power Plants, Everett Bldg., 45 E. 17th St., New York, and 502 First St., Brooklyn, N. Y.
- McKINNEY, Edward Byron, Sr. (1907), Supt. of Power, New Orleans Ry. & Light Co., 205 Baronne St., and *for mail*, 1323 Octavia St., New Orleans, La.
- McKINNEY, Robt. C. (1890), Manager, 1902-1905; Vice-President, 1905-1907; Pres., Niles-Bement-Pond Co., Pratt & Whitney Co., 111 Broadway, New York, N. Y.
- McKINNON, William R. (Junior, 1910), Hyd. Dept., Allis-Chalmers Co., and *for mail*, 5031 National Ave., West Allis, Wis.
- McLAREN, A. R. (1912), Partner, Pacific Gurney Elev. Co., 186 Fifth St., and *for mail*, 2377 Filbert St., San Francisco, Cal.
- McLAUTHLIN, Martin B. (1909), Engr. and Treas., Geo. T. McLauthlin Co., 120 Fulton St., Boston, and *for mail*, 65 Rockland Ave., Malden, Mass.
- McLEAN, Robert Walter (1907; 1913), Mech. Engr., Carver Cotton Gin Co., East Bridgewater, and Bridgewater, Mass.
- McLEOD, Adolphus A. (1910), Engr. and Supt., Fla. Phosphate Min. Corp., and *for mail*, Bartow, Fla.

- McMEANS, O. E. (1904; 1913), Cons. Engr., 710 Majestic Bldg. and *for mail*, 591 Middle Drive, Woodruff Pl., Indianapolis, Ind.
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- McMILLAN, Luther Burchard (Junior, 1913), Fellow in Mech. Engrg., Univ. of Wis. and *for mail*, 230 W. Gilman St., Madison, Wis.; also, Anchor, Tex.
- McMILLEN, Albert Knox (1913), Ch. Engr., Alex. Laughlin & Co., 1805 First Natl. Bank Bldg., and 2949 Zephyr Ave., Pittsburgh, Pa.
- McMILLIN, Emerson (1895), Life Member; Chairman Bd. of Directors, Am. Light & Traction Co., 40 Wall St., New York, N. Y., and *for mail*, "Darlington," Ramsey, N. J.
- McMULLEN, Cornelius L. (Junior, 1913), Fuller & Johnson Mfg. Co., and *for mail*, 24 E. Johnson St., Madison, Wis.
- McMULLEN, Vincent E. (1907; 1911), Genl. Supt., The Field-Brundage Co., and *for mail*, 155 Maple Ave., Jackson, Mich.
- McMULLIN, Frank V. (1903), Treas., Pa. Forge Co., Bridesburg Sta., and 3412 Deveraux St., Philadelphia, Pa.
- McMURTRY, Alden Lothrop (1911), Cons. Engr., Sound Beach, Conn.
- McNAIRY, Amos B. (1902), Mfr., Hickox Bldg., Cleveland, O.
- McNAUGHTON, James (1903), V. P., Am. Loco. Co., 30 Church St., and 402 W. 154th St., New York, N. Y.
- McNEIL, Merritt Charles (1912), Salesman, The Westinghouse Mch. Co., and *for mail*, 6716 Thomas Blvd., Pittsburgh, Pa.
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- MEYER, C. Louis (Junior, 1909), Mgr., Concrete Engrg. Co., Omaha Natl. Bank Bldg., and *for mail*, 210 S. 36th St., Omaha, Neb.
- MEYER, Edward Barnard (1913), Asst. to Ch. Engr., Public Service Elec. Co., and *for mail*, 805 S. 12th St., Newark, N. J.
- MEYER, Erwin Charles (Junior, 1911), Engr., Parish Mfg. Co., 1666 Mt. Elliott Ave., and 104 Belmont Ave., Detroit, Mich.
- MEYER, Henry Coddington, Jr. (1894; 1903), Cons. Mech. Engr., Architects Bldg., 101 Park Ave., New York, N. Y., and Montclair, N. J.
- MICHEL, A. Eugene (1906; Associate, 1908), Adv. Engr., Woolworth Bldg., 233 Broadway, New York, N. Y.
- MICHEL, Frederik Adolf (Junior, 1912), Ch. Draftsman, Milwaukee Bridge Co., and *for mail*, 114 Tenth St., Milwaukee, Wis.
- MICKLE, Frank A. (Junior, 1913), Designer, Buckeye Steel Castings Co., and *for mail*, 397 13th Ave., Columbus, O.
- MIDDLETON, Albert C. (Associate, 1911), Secy., Victor Talking Mch. Co., Camden, and *for mail*, 149 E. Main St., Moorestown, N. J.
- MIDDLETON, Harvey (1886), Pres., Thos. C. Basshor Co., 28 Light St., Baltimore, and 12 Overhill Rd., Roland Park, Md.
- MIDDLETON, Percy Howe (1894; 1901), Engr. and V. P., The Crandall Eng. Co., 102 Border St., East Boston, Mass.
- MIDGLEY, Frederick W. (Junior, 1904), Ch. Draftsman Eng. Dept., Otis Elev. Co., New York, and *for mail*, 11 Saratoga Ave., Yonkers, N. Y.
- MIGGETT, William Lincoln (1901), Prof. of Shop Practice and Supt., Engrg. Shops, Univ. of Mich., and 1102 Willard St., Ann Arbor, Mich.
- MILES, Henry Dixon (1907), Pres., Buffalo Fdy. & Mch. Co., and 139 Bryant St., Buffalo, N. Y.
- MILKER, Herbert P. (Associate, 1912), Assoc. Mgr. and Publicity Dir., C. J. Tagliabue Mfg. Co., 18-88 33d St., and 430 E. 5th St., Brooklyn, N. Y.

- MILLER, Clarence D. S. (1913), Pres., The Am. Tube & Stamping Co., and *for mail*, 269 Clinton Ave., Bridgeport, Conn.
- MILLER, Edward Furber (1888; 1891), Prof. Steam Engrg., Mass. Inst. of Tech., Boston, and 538 Ward St., Newton Centre, Mass.
- MILLER, Edward G. (1913; Associate-Member, 1913), Miller Bros., Teniente Rey 14, Apartado 271, and C St., cor 27th, Havana, Cuba.
- MILLER, Edwin Ellsworth (1912), Asst. Supt. of Power Plants, Hackensack Water Co., Weehawken, and Edgewood Lane, Palisade, N. J.
- MILLER, Elmo J. (1913; Associate-Member, 1913), Member of Firm, Miller Bros., Teniente Rey 14, Apartado 271, Havana, Cuba.
- MILLER, F. Joseph (Junior, 1905), Asst. Engr., Warren Webster & Co., Camden, N. J., and *for mail*, 1312 Bristol St., Philadelphia, Pa.
- MILLER, Frank Louis (Associate, 1907), Ch. Engr., Parkersburg Mch. Co., Parkersburg, W. Va.
- MILLER, Fred J. (1890), Manager, 1904-1907; Vice-President, 1907-1909; Factory Mgr., Remington Typewriter Co., 293 Broadway, and Engineers' Club, 32 W. 40th St., New York, N. Y.
- MILLER, George H. (1906), Supvg. Engr., Cheney Bros., and 23 E. Center St., South Manchester, Conn.
- MILLER, H. W. (Junior, 1912), Asst. Dean, College of Engrg., Asst. Prof. Charge of Dept. of Genl. Engrg. Drawing, Univ. of Ill., 300 Engle Hall, Urbana, Ill.
- MILLER, Herman Gottlieb (1908), Directing Mech. and Refrigerating Engr., Armstrong Ice Mch. Co., 3201 E. Riverside Ave., and *for mail*, 3257 E. 14th Ave., Spokane, Wash.
- MILLER, John A. (1913), Pres., Dexter Portland Cement Co., Pres., Clinchfield Portland Cement Co., and 357 Belvidere St., Nazareth, Pa.
- MILLER, John F. G. (1910), Engrg. Salesman and Mgr. St. Louis Office, Am. Blower Co., Title Guaranty Bldg., and 230 N. Boyle Ave., St. Louis, Mo.
- MILLER, John S. (1900; 1907), Yuba Constr. Co., and 604 H St., Marysville, Cal.
- MILLER, John Vincent (1913), Mgr., Edison Chem. Wks., Silver Lake, and *for mail*, 301 William St., East Orange, N. J.
- MILLER, Lebbeus B. (1883), Manager, 1893-1896; 1025 E. Jersey St., Elizabeth, N. J.
- MILLER, Richard Edward (Junior, 1913), Jos. Pickauds & Co., Marquette, Mich.
- MILLER, Spencer (1888), Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and 217 Turrell Ave., South Orange, N. J.
- MILLER, Theodore Harry (1906), Supt., De Laval Separator Co., and *for mail*, 40 S. Clinton St., Poughkeepsie, N. Y.
- MILLER, Thomas Harrison (Junior, 1905), Ch. Draftsman, Semet-Solvay Co., and *for mail*, Solvay Club House, Syracuse, N. Y.

- MILLER, Walter (1886), 24 Rosemont Rd., East Cleveland, O.
- MILLETT, Kenneth Ballard (1908; Associate-Member, 1913), Local Mech. Engr., Willimantic Mills, The Am. Thread Co., and *for mail*, Fairview St., Willimantic, Conn.
- MILLHOLLAND, William Knox (1907), Pres., W. K. Millholland Mch. Co., Industrial Bldg., 10th and Canal Sts., and *for mail*, 2857 N. Capitol Ave., Indianapolis, Ind.
- MILLS, Charles (1907), Cons. Engr., Saco-Lowell Shops, and *for mail*, 23 High St., Newton Upper Falls, Mass.
- MILLS, Chester B. (1912), Mech. Engr. in Charge of Drafting Room, Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- MILLS, Edmund (1903), Marine Dept., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 319 Arlington Ave., Jersey City, N. J.
- MILLS, Harold Harlow (Junior, 1913), Contr. Engr., Automatic Sprinkler Co. of Am., Rm. 14, 119 State St., and *for mail*, 534 Providence St., Albany, N. Y.
- MILLS, Wallace Chamberlain (Junior, 1913), Inspr. of Constr., City of Janesville, and *for mail*, 425 E. Milwaukee St., Janesville, Wis.
- MILLSPAUGH, William H. (Associate, 1903), Pres., Sandusky Fdy. and Mch. Co., Sandusky, O.
- MILNE, James (1907), Mech. and Elec. Engr., City of Toronto, City Hall, and 67 High Park Blvd., Toronto, Ont., Canada.
- MILNER, Bert Branson (Junior, 1911), Spec. Engr., N. Y. Central Lines, Grand Central Terminal, New York, N. Y.
- MILSON, Thomas H. (1903), 528 E. 29th St., Paterson, N. J.
- MILTENBERGER, George Kerr (Junior, 1913), Genl. Mgr., Fulton Elec. Light & Power Co., Fulton, Ky.
- MINCK, Peter (Junior, 1909), Asst. to Sales Mgr., N. Y. Office, Kilbourne & Jacobs Mfg. Co., 25 Broad St., New York, N. Y., and *for mail*, 112 Gardner St., Union Hill, N. J.
- MIRK, Thomas (1913), Pres., Hunt, Mirk & Co., Inc., 141 Second St., San Francisco, and *for mail*, 55 Poplar Ave., San Mateo, Cal.
- MIRKIL, Thomas H., Jr. (1884), V. P. and Genl. Mgr., Poole Engrg. & Mch. Co., Woodberry, and The Severn Apts., Baltimore, Md.
- MISCH, Arthur Albert (Junior, 1913), Engr., Brown Hoisting Mchy. Co., and *for mail*, 1846 Ansel Rd., Cleveland, O.
- MITCHELL, Albert E. (1891), V. P., Wyckoff Pipe & Creosoting Co., Inc., 50 Church St., New York, N. Y., and Strawberry Hill Ave., Stamford, Conn.
- MITCHELL, Benjamin M. (1894; 1905), Pres., Conveying Weigher Co., Engr. of Tests, N. Y. Lubricating Oil Co., New York, N. Y., and Mech. Engr., Manhattan Rubber Mfg. Co., and *for mail*, 244 Lafayette Ave., Passaic, N. J.
- MITCHELL, Chas. J. (1908), Ch. Draftsman, Fairbanks-Morse Mfg. Co., and *for mail*, 825 Park Ave., Beloit, Wis.
- MITCHELL, Guy C. (1913), Head of Production and Engrg. Depts., The Hooven, Owens, Rentschler Co., and 501 Prytanla Ave., Hamilton, O.

- MITCHELL, Guy K. (Associate, 1913), Prop., Stand. Elec. & Elev. Co., 123 S. Calvert St., and 1952 W. Fayette St., Baltimore, Md.
- MITCHELL, Guy Edward (1903), Gillett Blk., cor Arnold and Elm Sts., Westfield, Mass.
- MITCHELL, John Hennon (Associate, 1900), Mgr. of Sales, West. Dist., Pressed Steel Car Co., West. Steel Car & Fdy. Co., 1470 Old Colony Bldg., Chicago, and *for mail*, 1032 Michigan Ave., Evanston, Ill.
- MITCHELL, Percival Howard (1913), Member of Firm, C. H. & P. H. Mitchell, 1003 Traders Bank Bldg., Toronto, Ont., Canada.
- MITCHELL, W. H. (Associate, 1913), Inspr., The Niagara Falls Power Co., and *for mail*, 440 12th St., Niagara Falls, N. Y.
- MITCHELL, Walter K. (1913), Pres., W. K. Mitchell & Co., Inc., 29th and Ellsworth Sts., Philadelphia, and Moylan, Delaware Co., Pa.
- MITCHELL, William Clark (1901), Engr., Nottingham, O.
- MIX, Melville W. (1893), Pres. and Mgr., Dodge Mfg. Co., Mishawaka, Ind.
- MIXSELL, Austin Davis (1913), Bethlehem Steel Co., South Bethlehem, and *for mail*, 12th and Prospect Ave., Bethlehem, Pa.
- MIXTER, George W. (1899; 1908), V. P., Deere & Co., Moline, Ill.
- MIZUNO, Seichi (Associate, 1912), 606 W. 113th St., New York, N. Y.
- MOELLER, Franklin (1891; 1912), Mech. Engr. Power and Min. Dept., Wellman-Seaver-Morgan Co., Cleveland, and *for mail*, 42 Chapman Ave., East Cleveland, O.
- MOELLER, William, Jr. (Associate-Member, 1913), Engr. and Supt. of Main Lines, Kan. Natural Gas Co., and *for mail* 525 N. 8th St., Independence, Kan.
- MOHR, Louis (1886), Secy. and Cons. Engr., John Mohr & Sons, 349 W. Illinois St., and 1520 N. Robey St., Chicago, Ill.
- MOLDENKE, Richard (1900), Secy., Am. Foundrymen's Asso., Watchung, N. J.
- MOLÉ, Harvey E. (1901), 55 Liberty St., New York, N. Y., and 17 Mountain Ave., Summit, N. J.
- MONAGHAN, James F. (1909), Cons. Engr., Mech. Engr., The Waltham Bleachery & Dye Wks., and *for mail*, 208 Newton St.; also, 2 Oak St., Waltham, Mass.
- MONAGHAN, Wm. Franchère (1886), Life Member; Engrg. Dept., N. Y. Edison Co., 55 Duane St., New York, N. Y.
- MONAHAN, Louis J. (1912), Mech. Engr., Termaat & Monahan Co., and *for mail*, 57 Waugoo St., Oshkosh, Wis.
- MONKS, Archibald G. (Associate, 1908), Partner, Monks & Johnson, 78 Devonshire St., Boston, and Kendal Green, Mass.
- MONKS, Wm. Douglas (Junior, 1908), Asst. Ch. Engr. Refrig. Mch. Dept., De La Vergne Mch. Co., foot of E. 138th St., New York, and *for mail*, 353 S. 3d Ave., Mt. Vernon, N. Y.

- MONNOT, John Ferreol (1909), Cons. Engr., Duplex Metals Co., V. P., Hudson Wire Co., and *for mail*, 31, Rue Daru, Paris, France.
- MONROE, Wm. S. (1896; 1901), Mech. Engr., Sargent & Lundy, 1720 Ry. Exch. Bldg., and 64 E. Elm St., Chicago, Ill.
- MONTAGUE, Chas. Dwight (1905), 471 S. Maple Ave., Glen Rock, N. J.
- MONTAGUE, Charles Eugene (Junior, 1913), Mech. Engr. and Designer, The Engelberg Huller Co., 831 W. Fayette St., and 430 Cortland Ave., Syracuse, N. Y.
- MONTAGUE, Wallace T. (Junior, 1913), Member Mech. Dept., Research Labs., Norton Co., and *for mail*, 989 Main St., Worcester, Mass.
- MONTEAGLE, Robt. Chas. (1904), Asst. Mgr. and Engr., The Lockwood Mfg. Co., East Boston, and *for mail*, 283 Highland Ave., West Newton, Mass.
- MONTGOMERY, H. M. (1889), Mfrs.' Agt., 137 S. LaSalle St., Chicago, and *for mail*, 1221 Davis St., Evanston, Ill.
- MONTGOMERY, Hugh (1912), Rutland R. R. Co., Rutland, Vt.
- MONTGOMERY, Stafford (Junior, 1913), Industrial and Production Engr., Riverside, Ill.
- MOODY, Frederick Hayward (Junior, 1913), Mech. Editor, Canadian Railway and Marine World, 70 Bond St., and *for mail*, 161 Balsam Ave., Toronto, Ont., Canada.
- MOODY, Herbert A. (1901; 1905; 1910), Res. Engr., The Turners Falls Co., and 66 Central St., Turners Falls, Mass.
- MOODY, Lewis F. (1910), Prof. Hyd. Engrg., Rensselaer Poly. Inst., and Cons. Engr. Hyd. Dept., I. P. Morris Co. of Philadelphia. Pa., and *for mail*, Brunswick Rd., Troy, N. Y.
- MOODY, William F. (1913), Designing Engr., 565 Ry. Exch. Bldg., Denver, Colo.
- MOODY, William O. (1907), Mech. Engr., Ill. Central R. R. Co., 135 E. 11th St., and *for mail*, 4453 Lake Ave., Chicago, Ill.
- MOON, Hartley Allen (Associate, 1908), Charge of Drafting and Test Depts., Continental Gin Co., and 1703 14th Ave., S., Birmingham, Ala.
- MOONEY, Franklin Proctor (Junior, 1911), 424 W. Olive St., Redlands, Cal.
- MOORE, Albert B. (1903), Treas. and Genl. Mgr., Shedd Elec. Co., Inc., and *for mail*, 138 Third Ave., E., Roselle, N. J.
- MOORE, Allen H. (1902), Genl. Elec. Co., Schenectady, and *for mail*, 579 Western Ave., Albany, N. Y.
- MOORE, Charles A. (Associate, 1880), Pres., Manning Maxwell & Moore, Inc., 119 W. 40th St., and P. O. Box 1400, New York, N. Y.
- MOORE, Edmund Burke (Junior, 1913), Engrg. Rep., Jones & Lamson Mch. Co., and *for mail*, 47 Summer St., Springfield, Mass.
- MOORE, Edwin A. (1908), Pres., Wilbraham Green Blower Co., Pottstown, and *for mail*, 2216 N. 52d St., Wynnefield Sta., W., Philadelphia, Pa.

- MOORE, Ernest Ainsworth (1913), Res. Mgr., A. M. Byers Co., 720 Fulton St., Chicago, and 531 N. Ridgeland Ave., Oak Park, Ill.
- MOORE, Fredk. Clouston (1905), 1611 Denniston Ave., E. E., Pittsburgh, Pa.
- MOORE, H. Lee (Junior, 1913), Charge Pittsburgh Office, Buffalo Forge Co., 1211 House Bldg., Pittsburgh, Pa.
- MOORE, Harold T. (Associate, 1907), Industrial Engr., Day & Zimmermann, 611 Chestnut St., and *for mail*, 2031 Spruce St., Philadelphia, Pa.
- MOORE, Herbert Fisher (1913), Asst. Prof. Theoretical and Applied Mechanics, Engrg. Exper. Sta., Univ. of Ill., Urbana, Ill.
- MOORE, James Leonard (1911), Ch. Engr. and Factory Mgr., Kerr Turbine Co., Wellsville, N. Y.
- MOORE, Lee C. (1902), Cons. Mech. Engr., Lee C. Moore & Co., 341 Sixth Ave., and *for mail*, 1815 Morrell St., N. S., Pittsburgh, Pa.
- MOORE, Levin A. (1912), Ch. Engr., Roessler & Hasslacher Chem. Co., and *for mail*, 125 Kearny Ave., Perth Amboy, N. J.
- MOORE, Miller F. (1891), 320 Chestnut St., Roselle, N. J.
- MOORE, R. S. (1892), Manager, 1901-1904; Life Member; Treas., Moore & Scott Iron Wks., 678 Second St., and 1899 California St., San Francisco, Cal.
- MOORE, Samuel L. (1907), V. P. and Genl. Mgr., The Moore Bros. Co., and *for mail*, 205 Stiles St., Elizabeth, N. J.
- MOORE, Stanley H. (1900; Associate, 1903), Arch. and Engr., Forest and Selma Ave., Webster Groves, Mo.
- MOORE, Wm. Enoch (1903), V. P. and Genl. Mgr., West. Pa. Traction & Water Power Co. Properties, 1900 First Natl. Bank Bldg., Pittsburgh, Pa.
- MOORE, William James Perry (1885; 1888), Alberger Pump & Condenser Co., 140 Cedar St., and *for mail*, 629 W. 115th St., New York, N. Y.
- MORAN, Daniel E. (1886; 1904), Cons. Engr., 55 Liberty St., New York, N. Y., and Mendham, Morris Co., N. J.
- MORAN, Daniel James (Junior, 1913), Engr. in Charge, The Tex. Co., Port Arthur, Tex., and 620 S. Boulder Ave., Tulsa, Okla.
- MORAT, Jacques (1909), Spuyten Duyvil, and 314 Riverdale Ave., Yonkers, N. Y.
- MORAVA, Wensel (1886), Pres., Morava Constr. Co., and *for mail*, 4846 Kenwood Ave., Chicago, Ill.
- MOREHEAD, George Lawrence (1912), Supt. of Constr., Link-Belt Co., and *for mail*, 7116 Princeton Ave., Chicago, Ill.
- MOREHEAD, William C. (Junior, 1913), V. P., Natl. Light & Power Co., Pierce Bldg., St. Louis, Mo.
- MORETON, George Wm. (1909), Genl. Supt., Betts Mch. Co., and 1323 Gilpin Ave., Wilmington, Del.
- MORFORD, Thomas E. (1902), Mgr. N. Y. Office, Am. Steam Pump Co., 17 Battery Pl., New York, N. Y.

- MORGAN, David Bradley (1912), 233 Indiana Ave., Kankakee, Ill.
- MORGAN, John D. (1913), Pat. Solicitor, Mech. Expt. and Atty., 2 Rector St., New York, N. Y.
- MORGAN, John T. (Junior, 1912), Dist. Sales Agt., The Ohio Brass Co., 1503 Virginia St., Charleston, W. Va.
- MORGAN, Joseph (1881), Vice-President, 1886-1888; Cons Engr., 408 Tioga St., Westmont, Johnstown, Pa.
- MORGAN, Lewis Henry (1904; 1906), 705 W. Front St., Plainfield, N. J.
- MORGAN, Paul B. (1891; 1900), Treas., Morgan Constr. Co., 21 Lincoln St., and 21 Cedar St., Worcester, Mass.
- MORGAN, Ralph Landers (1900; 1902), Cons. Engr., 452 Main St., and 96 William St., Worcester, Mass.
- MORGAN, Robert C. (1911), Engr., Stewart A. Jellett, Franklin Bank Bldg., Philadelphia, and *for mail*, 314 W. Seymour St., Philadelphia, Pa.
- MORGAN, William F. (Associate, 1906), N. E. Agt., Am. Mfg. Co., Beacon and Joy Sts., Boston, Mass.
- MORGANA, Charles, Jr. (Junior, 1913), Charge of Mch. Tool Engrg. Dept., Ford Motor Co., Detroit, Mich.
- MORITZ, Albert (1905), Comdr., U. S. Navy, Ret., 723 E. 18th St., Brooklyn, N. Y.
- MORRILL, Harley Winslow (1913), Genl. Supt., Ludlow Mfg. Associates, and *for mail*, 7 Park Pl., Ludlow, Mass.
- MORRIN, Thomas (1897), Cons. Mech. Engr., 547 Phelan Bldg., and 1353 Jackson St., San Francisco, Cal.
- MORRIS, Edward Thomas (1912), Mgr., Associated Pipe Line Co., Mgr. Pipe Line Dept., Associated Oil Co., 619 Sharon Bldg., San Francisco, Cal.
- MORRIS, Henry G. (1882), Vice-President, 1887-1889; Commonwealth Bldg., 12th and Chestnut Sts., and Cons. Engr., Cresson Morris Co., 18th St. and Allegheny Ave., Philadelphia, Pa.
- MORRIS, Thomas Bray (Junior, 1910), Mech. Engr., E. K. Morris & Co., and *for mail*, 3116 McHenry Ave., Cincinnati, O.
- MORRISON, Clarke J. (1909), V. P. and Ch. Engr., Froggatt, Morrison & Co., Inc., 149 Broadway, New York, N. Y., and *for mail*, 191 N. Walnut St., East Orange, N. J.
- MORRISON, Egbert R. (Junior, 1906), Mgr., Morrison Boiler Co., Sharon, Pa.
- MORRISON, Herbert H. (1898; 1904), Mech. Engr., Fullerton Bldg., St. Louis, Mo.
- MORRISON, Hunter (Junior, 1903), Sales Mgr., Hill Clutch Co., and 1801 E. 89th St., Cleveland, O.
- MORRISON, William (Junior, 1900), Pres., Charge of Sales, The Highland Body Mfg. Co., Elmwood Pl., Cincinnati, and *for mail*, 750 Ludlow Ave., Clifton, Cincinnati, O.
- MORRISSEY, Peter Joseph (1913), Genl. Mgr., Citizens Light, Heat & Power Co. of Pa., Johnstown, Pa.

- MORROW, Robert Lee (Junior, 1913), Insp., The Fidelity & Casualty Co., and *for mail*, 219 W. 70th St., New York, N. Y.
- MORSE, Arthur Holmes (1911), Mech. Engr. and Asst. Supt., The Baldwin Co., and *for mail*, 2202 Highland Ave., Cincinnati, O.
- MORSE, Chas. H., Jr. (1897; 1904), Pres., Fairbanks-Morse Mfg. Co., 900 S. Wabash Ave., and *for mail*, 1132 E. 49th St., Chicago, Ill.
- MORSE, Chas. M. (1884), Cons. Mech. Engr., 2 Rector St., New York, and Buffalo, N. Y.
- MORSE, Frank Lincoln (1912), Treas. and Mgr., Morse Chain Co., and 514 Edgewood Pl., Ithaca, N. Y.
- MORSE, Robert Gorham (Associate, 1913), Treas. and Asst. Mgr., Rivett Lathe & Grinder Co., Boston, and *for mail*, 48 Lakeville Pl., Jamaica Plain, Mass.
- MORSE, William A. (1903), Wks. Mech. Engr., Otis Elev. Co., Wells and Woodworth Ave., and *for mail*, 21 Union Pl., Yonkers, N. Y.
- MORSE, William H. (1901; 1903), 31 Pleasant St., Brookline, Mass.
- MORTENSEN, Casper (Junior, 1899), Designer Mch. Tool Dept., Genl. Elec. Co., and *for mail*, 220 Broadway, Schenectady, N. Y.
- MORTON, Geo. L. (1890), Prin. Examiner, Instruments of Precision, 264, U. S. Pat. Office, and *for mail*, Flat 503, The Ontario, Washington, D. C.
- MOSCHEL, Herman (Junior, 1912), Supt., Dain Mfg. Co., and 125 W. 5th St., Ottumwa, Ia.
- MOSELEY, Alexander Willett (1900), Prof. Mech. Engrg., Lewis Inst., Chicago, and *for mail*, Evanston, Ill.
- MOSES, Lucius L. (1912), Hallidie Mch. Co., Seattle, Wash.
- MOSHER, William Earl (Junior, 1912), Field Investigations in Pomology, Bureau of Plant Industry, Dept. of Agriculture, Washington, D. C., and *for mail*, Box 704, Mechanicsville, N. Y.
- MOSMAN, Chas. Tyler (1909), Dist. Engr., Genl. Elec. Co., 84 State St., Boston, and Winchester, Mass.
- MOSS, Sanford A. (1903), Engr. Turbine Research Dept., Genl. Elec. Co., West Lynn, and 36 Sachem St., Lynn, Mass.
- MOSSBERG, Frank (1895), Pres. and Genl. Mgr., Frank Mossberg Co., also V. P. and Cons. Engr., Stand. Mch. Co. of Providence, R. I., and *for mail*, 141 Pleasant St., Attleboro, Mass.
- MOTT, Abram Cox, Jr. (1907; 1913), First V. P. and Genl. Mgr., Abram Cox Stove Co., American and Dauphin Sts., Philadelphia, and "The Woods," Box 71, Lansdale, Pa.
- MOTT, Chas. Stewart (1898; 1909), Pres., Weston Mott Co., Flint, Mich.
- MOULTROP, Irving E. (1902), Manager, 1908-1911; Vice-President, 1912-1914; Asst. Supt. Constr. Bureau, Edison Elec. Ill. Co. of Boston, and *for mail*, 39 Boylston St., Boston; also, 75 Winchester St., Brookline, Mass.

- MOUNT, Carroll Hays (Junior, 1910), Power Engr., E. W. Clark & Co. Management Corp., 910 Wyandotte Bldg., Columbus, O.
- MOUNT, Wm. Dye (1892; 1897), Genl. Mgr., Mathieson Alkali Wks., Saltville, Va.
- MOWERY, John N. (1906), Mech. Engr., Keystone Lubricating Co., 21st and Clearfield Sts., Philadelphia, Pa.
- MOXHAM, Egbert (1906; 1912), Asst. Mgr. Development Dept., E. I. du Pont de Nemours Co., and *for mail*, 1101 Rodney St., Wilmington, Del.
- MOYER, Allen V. (Junior, 1909), Mech. Engr., Heine Safety Boiler Co., and *for mail*, 371 Second Ave., Phoenixville, Pa.
- MOYER, J. Ross (Junior, 1913), Supt. Complete Plant, Detroit Bridge & Steel Wks., River Rouge, Detroit, Mich., and 7118 Germantown Ave., Mt. Airy, Philadelphia, Pa.
- MOYER, James A. (1907), Prof. in Charge Dept. Mech. Engrg. and Engrg. Exper. Sta., Pa. State College, State College, and Pennsylvania Bldg., Philadelphia, Pa.
- MOYER, William J. (Associate-Member, 1913), Supt. of Constr., Moyer Engrg. & Constr. Co., 375 Fulton St., and 1809 Beverly Rd., Brooklyn, N. Y.
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- MUDD, John Posey (Junior, 1910), Mech. Engr., Midvale Steel Co., and *for mail*, 229 Zeralda St., Philadelphia, Pa.
- MUELLER, Herman F. (1913), Ch. Engr., Washburn Crosby Co., and *for mail*, 2018 Dupont Ave., N., Minneapolis, Minn.
- MUELLER, Victor H. (Junior, 1907), 25 Maple Terrace, East Orange, N. J.
- MUHLFELD, John E. (1908), Sherbrooke Rd., Scarsdale, N. Y.
- MUIR, John J. (1896), Mech. Supt., Bass Fdy. & Mch. Co., and *for mail*, 2221 Fairfield Ave., Fort Wayne, Ind.
- MULHERON, William (Junior, 1913), Engrg. Designer, S. I. Shipbuilding Co., Port Richmond, and *for mail*, 327 Oakland Ave., West New Brighton, S. I., N. Y.
- MULLANEY, John J. (1901), 150 Nassau St., New York, N. Y.
- MULLEN, John (1886), Genl. Mgr., John Mullen & Son, 516 N. Franklin St., and 129 S. Shamokin St., Shamokin, Pa.
- MULLER, Edward A. (1890), Secy. and Mgr., King Mch. Tool Co., Winton Pl., Cincinnati, and *for mail*, 501 Mitchell Ave., Avondale, Cincinnati, O.
- MÜLLER, Frederick (Junior, 1913), Engr., Müller Mfg. Co., 1198 Franklin Ave., New York, N. Y.
- MULLER, Paul (1903), Ch. Draftsman, Sprague Elec. Wks. of Genl. Elec. Co., Bloomfield, and *for mail*, 532 Warren St., Newark, N. J.
- MULLER, Richard Otto (1913), Cons. Engr. and Engr. in Charge, Am. Turbine Eng. Co., Star Bldg., Washington, D. C.

- MÜLLER, T. H. (1888), Cons. Engr., Federal Sugar Refining Co., Rm. 807-809, 91 Wall St., and 1340 Madison Ave., New York, N. Y.
- MÜLLHAUPT, Alfred, Jr. (Junior, 1911), Mech. Engr., Corliss Carbon Co., and *for mail*, Box 3, Bradford, Pa.
- MUMFORD, Edgar Huidekoper (1887; 1892), V. P. and Genl. Mgr., Mumford Molding Mch. Co., 30 Church St., New York, N. Y., and *for mail*, 27 Compton Ave., Plainfield, N. J.
- MUNCASTER, Walter J. (1887), V. P. and Genl. Mgr., Cumberland Steel Co., Cumberland, Md.
- MUNRO, George Wesley (1912), Asst. Prof. Mech. Engrg., Purdue Univ., Lafayette, and *for mail*, 202 Waldron St., West Lafayette, Ind.
- MUNSON, Charles Council (Associate, 1913), Mgr., Philadelphia Branch, Splitdorf Elec. Co. of N. Y., 210-212 N. 13th St., Philadelphia, Pa.
- MUNSON, Edmund G. (1908), Supt. and Secy., Munson Bros. Co., Utica, N. Y.
- MUNSON, Stanley (Junior, 1911), Ch. Engr., Proctor & Gamble Co., Port Ivory, and *for mail*, 96 Albion Pl., Port Richmond, S. I., N. Y.
- MURPHY, Benjamin Stewart (Junior, 1905), Asst. Engr., Mech. Dept., Hudson & Manhattan R. R. Co., 30 Church St., New York, N. Y., and *for mail*, 254 Fourth St., Jersey City, N. J.
- MURPHY, Edward Thomas (Junior, 1905), Sales Engr., Carrier Air Conditioning Co., 732 Real Estate Trust Bldg., and 138 S. 50th St., Philadelphia, Pa.
- MURPHY, Frederick E. (1897), 31 Sagamore St., Dorchester, Mass.
- MURPHY, John H. (1912), Mfr. and Contr. Engr., John H. Murphy Iron Wks., Magazine and Girod Sts., P. O. Box 1748, and 1322 Felicity St., New Orleans, La.
- MURPHY, John Z. (1899), Ch. Engr., Chicago Rys. Co., 700 Borland Bldg., and *for mail*, 3818 Lexington St., Chicago, Ill.
- MURPHY, Ralph (Associate-Member, 1913), Mgr. Service Dept., Franklin Auto. Co., and *for mail*, 620 Park Ave., Syracuse, N. Y.
- MURPHY, Thomas Robert Hoysted (Junior, 1911), Member of Firm, Joseph H. Wallace & Co., 914 Temple Court, and *for mail*, 539 W. 162d St., New York, N. Y.
- MURPHY, William T. (1911; 1912), Genl. Mgr., Stand. Mchy. Co., Auburn, and 144 Wentworth Ave., Edgewood, R. I.
- MURRAY, Arthur F. (Junior, 1908), Equip. Engr., Blake & Knowles Steam Pump Wks., East Cambridge, Mass.
- MURRAY, Charles R. (Associate, 1889), V. P., Treas. and Charge of Mfg., Barnhart Bros. & Spindler, 168-172 W. Monroe St., Chicago, and 82 Elm St., Hinsdale, Ill.
- MURRAY, Geo. R. (1903), Pres., The Euclid Stone & Brick Co., 914 Williamson Bldg., Cleveland, and Superior and Lee Rds., Cleveland Heights, O.

- MURRAY, Henry H. (1899; 1905), Mech. Engr., Victor Talking Mch. Co., Camden, and *for mail*, 713 Main St., Riverton, N. J.
- MURRAY, J. Weidman (1901), Sales Mgr., Allis-Chalmers Mfg. Co., 814 Frick Bldg., and 6024 Jackson St., E. E., Pittsburgh, Pa.
- MURRAY, Thomas Edward (1894), V. P., N. Y. Edison Co., 57 Duane St., New York, and 783 St. Marks Ave., Brooklyn, N. Y.
- MURRAY, Warren Edwards (1910), Ch. Engr., West. Sugar Refining Co., 23d and Louisiana Sts., San Francisco, and Spreckels Sugar Co., Spreckels, and Union League Club, San Francisco, Cal.
- MURRIE, John L. (Junior, 1905), Ford, Bacon & Davis, 115 Broadway, New York, N. Y.
- MUTHER, Ellis F. (Associate, 1907), East. Sales Mgr., Gisholt Mch. Co., 50 Church St., New York, N. Y., and East Orange, N. J.
- MUZZARELLI, G. Stuart (Junior, 1912), Contr. Engr., N. Y. Structural Co., 50 Church St., New York, N. Y.
- MYERS, Cornelius T. (1908; 1912), Cons. Engr., Motor Trucks and Automobiles, 202 Scherer Bldg., Detroit, Mich.
- MYERS, Curtis Clark (Junior, 1905), Prof. in Charge of Coördination, Univ. of Cincinnati, and 3432 Lyleburn Pl., Cincinnati, O.
- MYERS, David Moffat (1907; 1912), Cons. Engr., 17 Battery Pl., and 309 W. 70th St., New York, N. Y.
- MYERS, James Lawrence (Junior, 1913), Mech. Engr., Coast Coaling Co., 17 Battery Pl., New York, N. Y.
- MYERS, Walter S. (1910), Ch. Draftsman, Ladd & Baker, Philadelphia, and *for mail*, 19 N. Front St., Darby, Pa.
- NAEGELE, John C. (1901), Engr. and Arch., 73 Rochelle Ave., Wissahickon, Philadelphia, Pa.
- NAESS, Ragnvald (Junior, 1912), Mech. Engr. Engrg. Dept., Am. Trading Co., and *for mail*, Box 277, Manila, P. I.
- NAGLE, A. F. (1880), Cons. Engr., 22 S. High St., Bethlehem, Pa.
- NAGY, Béla (1913), Industrial Engr., Natl. Lamp Div., Genl. Elec. Co., Nela Park, Cleveland, and *for mail*, 1376 Ansel Rd., Cleveland, O.
- NAILLER, Raymond Frederick (1911), Pres. and Genl. Mgr., The Enameled Pipe & Engrg. Co., Elyria, O.
- NAPHTALY, Sam L. (1907), Pres., Oakland & Antioch Ry., 105 Montgomery St., and 1770 Pacific Ave., San Francisco, Cal.
- NASH, Lewis H. (1891), Pres., Nash Engrg. Co., and 66 West St., South Norwalk, Conn.; also, Ch. Engr., Natl. Meter Co., 84 Chambers St., New York, N. Y.
- NATE, Emile Henry (Junior, 1904), Pres. and Treas., The Nate-Earle Co., Inc., 581 Eleventh Ave., New York, N. Y., and *for mail*, 154 Seymour Ave., Newark, N. J.

- NATHAN, Alfred (Junior, 1891), Pres., Nathan Mfg. Co., 101 Park Ave., and 36 E. 72d St., New York, N. Y.
- NAYLOR, Chas. Wm. (1905), Ch. Engr., Marshall Field & Co., 121 N. State St., and *for mail*, 4429 Congress St., Chicago, Ill.
- NEALE, William McCormick (Junior, 1913), Ch. Draftsman, Am. Mch. & Mfg. Co., and 479 W. Washington St., Greenville, S. C.
- NEAVE, Andrew A. (1912), Ch. Engr., Treadwell Eng. Co., Easton, Pa.
- NEAVE, Pierson Mitchell (Junior, 1903), Telephone Engr., West. Elec. Co., Bethune and West Sts., New York, N. Y., and 46 Highland Ave., Glen Ridge, N. J.
- NEDDEN, F. zur (1913), Cons. Engr., 81 Cayuga St., Seneca Falls, N. Y.
- NEELY, Frank H. (Junior, 1908), Industrial Engr., 70 Madison Ave., and 633 Piedmont Ave., Atlanta, Ga.
- NEELY, Fred. L. (Junior, 1909), Central Ga. Power Co., Macon, Ga.
- NEFF, Elmer Hartson (1898), Life Member; N. Y. Mgr., Brown & Sharpe Mfg. Co., Rm. 900, 20 Vesey St., New York, N. Y.
- NEFF, John P. (1913), Ch. Engr. and Asst. to Pres., Am. Arch Co., 30 Church St., New York, N. Y.
- NEHRBAS, Frederick Phillip (1912), Factory Mgr., Lyons-Atlas Co., and 1649 N. Delaware St., Indianapolis, Ind.
- NEIDHARDT, J. Wm. (1910), Ch. Engr. and Wks. Mgr., The Detrick & Harvey Mch. Co., and *for mail*, 1807 W. Baltimore St., Baltimore, Md.
- NEILER, Samuel Graham (1907), Cons. Mech. and Elec. Engr. and Pres., Neller, Rich & Co., 1407-1411 Manhattan Bldg., Chicago, and Oak Park, Ill.
- NEILSON, Frederick C. (Associate, 1908), P. O. Box 472, West Hartford, Conn.
- NEILSON, William LaCoste (1913), Genl. Mgr., Deutsche Norton Gesellschaft. m.b.H., Wesseling bez, Cologne, Germany.
- NELSON, Bernard Stanley (Junior, 1910), A. M. Lockett & Co., Ltd., 533 Baronne St., and 1926 N. Claiborne St., New Orleans, La.
- NELSON, Emil Andrew (1913), Mech. Engr., 104 Park View Ave., Detroit, Mich.
- NELSON, Eric Hugo (1909), Ch. Draftsman, Geo. F. Blake Mfg. Co., Cambridge, and *for mail*, 15 Montague St., Arlington Hgts., Mass.
- NELSON, Ernest Benjamin (Junior, 1912), Paraiso Shops, Paraiso, Canal Zone.
- NELSON, James W. (1904; 1913), Mgr., Supt. and Engr., Estate of Richard Dudgeon, 82 Broome St., New York, and 61 Livingston St., Brooklyn, N. Y.
- NESBIT, Edwin (1907), Zinc Engr., Grasselli Chem. Co., and 2627 E. 77th St., Cleveland, O.
- NESBIT, Joseph Newton Gray (1911), Prof. Exper. Engrg., Ga. Sch. of Tech., Atlanta, Ga.

- NESDAHL, Ellert (Associate, 1913), Buffalo Forge Co., and *for mail*, 282 Normal Ave., Buffalo, N. Y.
- NETTLETON, William Alpheus (1905), Ballston Lake, N. Y.
- NEUHAUS, Fritz A. E. (1898; 1906), Genl. Mgr. and Ch. Engr., A. Borsig, Tegel, Berlin, and Olivaerplatz 7, Charlottenburg, Germany.
- NEUREUTHER, Andrew Henry (Junior, 1899), Mech. Engr., West. Clock Co., La Salle, and *for mail*, 1511 Fourth St., Peru, Ill.
- NEVILL, David J. (1900), Mech. Engr., The Stearns-Roger Mfg. Co., Cons. Mech. Engr., The Dorr Cyanide Mchy. Co., and 658 Emerson St., Denver, Colo.
- NEW, William Edward (1913), M. M. and Supt. M. P., Kansas City Terminal Ry. Co., and *for mail*, 635 Schaefer Ave., Kansas City, Mo.
- NEWBURY, George K. (Junior, 1904), Packer Ave., W. S., Bethlehem, Pa.
- NEWCOMB, Chas. L. (1883), Pres., Mech. Engr. and Genl. Mgr., Deane Steam Pump Co., and *for mail*, 57 Fairfield Ave., Holyoke, Mass.
- NEWCOMB, Edward C. (1913), Cons. Engr. and Inventor, Holtzer-Cabot Elec. Co., and Am. Loco. Co., Brookline, and *for mail*, P. O. Box 65, North Scituate, Mass.
- NEWCOMB, Robert E. (Junior, 1907), Asst. Supt. and Mech. Engr., Deane Steam Pump Co., and *for mail*, 229 Chestnut St., Holyoke, Mass.
- NEWCOMB, Robert Scott (Junior, 1909), Mech. Engr., Walker & Chambers, 222 E. 41st St., New York, N. Y.
- NEWELL, Charles Z. (1904; 1912), Mech. Engr., Federal Leather Co., Rm. 202, 47 W. 42d St., New York, and *for mail*, 101 N. Broadway, Yonkers, N. Y.
- NEWELL, William (Junior, 1907), Mech. Engr., Bureau of Factory Inspc., N. Y. State Dept. of Labor, 381 Fourth Ave., New York, and 48 Sidney Pl., Brooklyn, N. Y.
- NEWHALL, Arthur Brock (Junior, 1913), Instr. Applied Science, Wentworth Inst., Boston, and *for mail*, 16 Park Drive, Brookline, Mass.
- NEWLIN, Alexander Z. (1909), Mech. Engr., Natl. Tube Co., Kewanee Wks. and *for mail*, 410 McKinley Ave., Kewanee, Ill.
- NEWMAN, Martin Freeze (1911), Asst. Mgr. Water Purifying Dept., Wm. B. Scaife & Sons Co., 221 First Ave., Pittsburgh, and *for mail*, Oakmont, Allegheny Co., Pa.
- NEWTON, Charles E. (Associate, 1895), Treas., Jewell Belting Co., 53 Trumbull St., and 19 Marshall St., Hartford, Conn.
- NEWTON, Charles Hollister (1912), Secy. and Treas., The Osborne & Stephenson Mfg. Co., and W. Main St., Plainville, Conn.
- NEWTON, George Henry (1912), Asst. to Mech. Supt., Brown & Sharpe Mfg. Co., and *for mail*, 292 California Ave., Providence, R. I.
- NEWTON, Lewis W. (1903), 18 N. 17th St., East Orange, N. J.

- NEWTON, Peter Augustin (1905), Asst. Genl. Supt., Ill. Steel Co., South Wks., South Chicago, and *for mail*, 5434 East End Ave., Chicago, Ill.
- NIBECKER, Karl (Junior, 1908), Steam Engr., Youngstown Sheet & Tube Co., and *for mail*, 48 Lincoln Apts., Youngstown, O.
- NICHOLL, John Seymour (Junior, 1909), Pres., Riverside Boiler Wks., Inc., 19 Congress St., Boston, and Sharon, Mass.
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- NICHOLS, Charles K. (Associate-Member, 1913), Engr. of Power, The N. Y. Edison Co., 55 Duane St., New York, N. Y.
- NICHOLS, Frederick Chester (Associate-Member, 1913), Asst. Mgr. Panama Branch, Union Oil Co. of Cal., Balboa, Canal Zone.
- NICHOLS, John T. (Junior, 1903), Ch. Engr., Chadwick Engrg. Wks., and *for mail*, 315 King St., Pottstown, Pa.
- NICHOLS, Melville Terry (1913), 46 Mt. Vernon St., Haverhill, Mass.
- NICHOLS, William Wallace (1899), Asst. to Chairman of Bd., Allis-Chalmers Mfg. Co., 30 Church St., and 35 Claremont Ave., New York, N. Y.
- NICHOLSON, Saml. T. (1904), Pres. and Genl. Mgr., Vulcan Iron Wks., and *for mail*, 187 Hanover St., Wilkes-Barre, Pa.
- NICKEL, Frank F. (1899), Engr., Henry R. Worthington, Harrison, and *for mail*, 27 Winans St., East Orange, N. J.
- NICKERSON, Alvano T. (1901), W. S. Barstow & Co., 50 Pine St., and 825 W. 178th St., New York, N. Y.
- NICKERSON, Charles Willis (Junior, 1912), Engr., Westchester Ltg. Co., Mt. Vernon, and *for mail*, 16 Rochelle Pl., New Rochelle, N. Y.
- NICKERSON, John Winslow (Junior, 1911), Industrial Engr., Glenlyon Dye Wks., Saylesville, R. I.
- NICOLAI, Charles A. (1913), Genl. Supt., Thos. A. Edison, Inc., Edison Phonograph Wks., Orange, and 23 Grace St., Bloomfield, N. J.
- NILES, Francis H. (Associate, 1907), Dungeness Farm, Rock Castle, Va.
- NINDE, William Edward (1899; 1903), Assoc. Prof. Mech. Engrg., Syracuse Univ., and *for mail*, 939 Maryland Ave., Syracuse, N. Y.
- NISTLE, George W. (1901), Secy., Ill. Engrg. Co., 315 Dearborn St., Chicago, Ill., and *for mail*, R. F. D. No. 8, Muskegon, Mich.
- NIXON-MILLER, Martin (Associate, 1913), War Dept., U. S. Engr. Office, 815 Witherspoon Bldg., Philadelphia, and Prospect Ave., Chestnut Hill, Philadelphia, Pa.
- NOBLE, Alfred (1907), Manager, 1912-1915; 7 E. 42d St., and 501 W. 120th St., New York, N. Y.
- NOBLE, Patrick (1892), Pres., Pacific Rolling Mill Co., 216 Sharon Bldg., and 1544 Sacramento St., San Francisco, Cal.

- NOBLE, William A. E. (1913), Genl. Mgr., United Casting Co., and *for mail*, 5419 Russell Ave., Los Angeles, Cal.
- NORCROSS, J. Arnold (1900), Life Member; Secy. and Treas., New Haven Gas Light Co., New Haven, Conn.
- NORDBERG, Bruno Victor (1893), Pres. and Ch. Engr., Nordberg Mfg. Co., and *for mail*, 512 Logan Ave., Milwaukee, Wis.
- NORDBERG, Carl Victor (1908), Mech. Engr., Rep., Nordberg Mfg. Co., 305-307 Electric Bldg., and 1901 First Ave., Butte, Mont.
- NORDEN, Arvid (1913), Ch. Draftsman, The Canadian Copper Co., and *for mail*, P. O. Box 36, Copper Cliff, Ont., Canada.
- NORDEN, Carl L. (Junior, 1908), Engr., The Sperry Gyroscope Co., 40 Wall St., New York, and *for mail*, 115 Kenmore Pl., Brooklyn, N. Y.
- NORDMEYER, Louis C. (1899; 1913), Secy. and Treas., Tait-Nordmeyer Engrg. Co., 1114 Internatl. Life Bldg., and 4256 Shenandoah Ave., St. Louis, Mo.
- NORELIUS, E. F. (1912; Associate-Member, 1913), Mech. Engr., Holt Mfg. Co., Inc., and Y. M. C. A., Peoria, Ill.
- NORRIS, Alexander Murdoch (Junior, 1912), Member of Firm, Chatard & Norris, 1415 Continental Bldg., Baltimore, Md.
- NORRIS, Almon E. (1900), Ch. Engr., Mead-Morrison Mfg. Co., Prescott and Orleans Sts., East Boston, and *for mail*, 108 Naples Rd., Brookline, Mass.
- NORRIS, Charles Henry (1913), Mech. Engr., Asst. to Second V. P., Am. Hardware Corp., and 227 W. Main St., New Britain, Conn.
- NORRIS, Edson R. (1906), Dir. of Mfg. Operations, Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail* 205 Vine St., Swissvale, Pa.
- NORRIS, Edward Wentworth (Junior, 1912), Draftsman, Southwark Fdy. & Mch. Co., and *for mail*, 3622 Chestnut St., Philadelphia, Pa.
- NORRIS, Henry Lee (Junior, 1904), Supt. Bldgs. and Grounds, Columbia Univ., and Livingston Hall, Columbia Univ., New York, N. Y.
- NORRIS, Henry McCoy (1892; 1898), Mech. Engr., The Cincinnati Bickford Tool Co., Oakley, Cincinnati, O.
- NORRIS, J. H. (1891; 1905), Mech. Engr., Natl. Meter Co., 4207 First Ave., Brooklyn, and 112 Cathedral Parkway, New York, N. Y.
- NORRIS, James U. (Junior, 1907), Asst. Mgr., The Rockefeller Inst. for Medical Research, 66th St. and Ave. A, and 120 Convent Ave., New York, N. Y.
- NORRIS, Robert V. (1885; 1891), Cons. Engr., 524 Second Natl. Bank Bldg., and 40 S. Franklin St., Wilkes-Barre, Pa.
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- NORRIS, William H., Jr. (Junior, 1909), Commercial Engr., Ltg. Dept., Genl. Elec. Co., and 1197 Eastern Ave., Schenectady, N. Y.

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- NORTHRUP, Francis B. (Junior, 1905), Mech. Engr., The Charles Burroughs Co., Newark, and *for mail*, 106 Day St., Orange, N. J.
- NORTON, Arthur Edwin (1911), Asst. Prof. Mech. Drawing, Harvard Univ., and *for mail*, 303 Pierce Hall, Cambridge, Mass.
- NORTON, Charles H. (1913), Mech. Engr., Norton Grinding Co., and *for mail*, 9 Davidson Rd., Worcester, Mass.
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- NORTON, Harold P. (1906), Capt. U. S. N.; Member Naval Examining and Retiring Bds., Navy Yard, Washington, D. C.
- NORTON, Homer B. (1911), Ch. Engr., Elk Tanning Co., and *for mail*, 302 Adams Ave., Ridgway, Pa.
- NORVIG, Johan (1913), Supt., The Iola Portland Cement Co., Iola, Kan.
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- NOYES, Henry (1899), Life Member; Governing Dir., Noyes Bros., Ltd., 499-501 Bourke St., Melbourne, and "Holmby," Malvern Rd., Malvern, nr. Melbourne, Australia.
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- NOYES, Wm. S. (1896), Min. Engr., 818 Mills Bldg., San Francisco, Cal.
- NUNN, P. N. (1904), Provo, Utah.
- NUSIM, Melach I. (1912), Turbine Engrg., Genl. Elec. Co., and *for mail*, 99 High Rock St., Lynn, Mass.
- NUTE, Edwin Lee (Junior, 1911), Genl. Supt., Winslow Bros. & Smith Co., and 437 Walpole St., Norwood, Mass.
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- ODELL, W. H. (1880), Mech. Engr., Spec., Economic Generation and Application of Steam, Yonkers, N. Y.
- OFFUTT, M. Webb (1910), Georgetown, Ky.
- OGG, James (1913), Ch. Engr., Hawaiian Agricultural Co., Pahala, Kau, Hawaii.
- OHLE, Ernest L. (1906; 1908), Prof. Mech. Engrg., Washington Univ., and 1273 Hamilton Ave., St. Louis, Mo.
- OHLSON, Olof (1911), Mech. Supt., Waltham Watch Co., Waltham, and *for mail*, 472 Crafts St., West Newton, Mass.
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- O'KEEFFE, James G. (Junior, 1907), Supt. Wks., Pub. Service Gas Co., 35 Front St., Newark, and *for mail*, 10 Nassau Pl., East Orange, N. J.
- O'LEARY, Frank J. (1911), Mgr., Spec. Injectors Co., 611 Fort St., W., and *for mail*, 307 Putnam Ave., Detroit, Mich.
- OLIN, F. W. (Associate, 1895), Pres., Equitable Powder Mfg. Co., West. Cartridge Co., West. Powder Mfg. Co., and Pres., Egyptian Powder Co., East Alton, and *for mail*, 1128 State St., Alton, Ill.
- OLIVENBAUM, John Emmanuel (1911), Radiographer and Asst. Supt., Lakeside Hospital, Cleveland, O.
- OLIVER, E. C. (Junior, 1902), Factory Mgr., Detroit Instrument Co., 251 Jefferson Ave., and *for mail*, 130 Gladstone Ave., Detroit, Mich.
- OLMSTED, Geo. C. (Junior, 1909), Mgr., Minn. Radiator Co., Duluth, Minn.
- OLSON, Charles Andrew (1913), Wks. Mgr., Walworth Mfg. Co., Boston, and *for mail*, 59 Marian St., Brookline, Mass.
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- O'NEIL, John Francis (1908), Pres., Fulton Iron Wks., and 4236 W. Pine Blvd., St. Louis, Mo.
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- ORCUTT, Guy Hall (Junior, 1909), Elec. Engr., Mich. Alkali Co., and *for mail*, 74 Van Alstyne Blvd., Wyandotte, Mich.
- ORCUTT, Harry Fred Lee (1900), Managing Dir., Gear Grinding Co., Ltd., Hansworth, Birmingham, and *for mail*, Rowington Hall, nr. Warwick, England.
- ORD, Henry C. (1905), 29 St. Helms Ave., Tacoma, Wash.
- ORMSTON, Alfred J., Jr. (Junior, 1913), Mech. Engr., Massey Mch. Co., and 180 Clinton St., Watertown, N. Y.

- ORR, Alexander Macklin, Jr. (Junior, 1898), Partner, Gielow & Orr, 52 Broadway, and *for mail*, 132 E. 72d St., New York, N. Y.
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- ORROK, Geo. A. (1902), Manager, 1911-1914; Mech. Engr., N. Y. Edison Co., 55 Duane St., New York, and *for mail*, 232 E. 17th St., Flatbush, N. Y.
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- OSBORNE, Charles T. (1908), Pres., Osborne, Rea & Co., 241-243 W. 41st St., and 254 W. 100th St., New York, N. Y.
- OSBORNE, G. F. F. (1903), Box 84 Genl. P. O., and 221 George St., Toronto, Ont., Canada.
- OSBORNE, L. Edward (1912), Ch. Draftsman, Loco. Stoker Co., and 3 Charles St., Schenectady, N. Y.
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- OSTRANDER, Allen Edward (Associate, 1905), Asst. Mech. Engr., Am. Car & Fdy. Co., 165 Broadway, New York, N. Y., and Wyndemere Ave., Ridgewood, N. J.
- OTIS, Spencer (1890), V. P., Natl. Dump Car Co., 523 Ry. Exch., Chicago, and Barrington, Ill.
- OTTESEN, Fredrik (1912), Ch. Engr. Gas Eng. Dept., Mesta Mch. Co., and *for mail*, 2307 Eldridge St., Pittsburgh, Pa.
- OTTINGER, Harry (Junior, 1910), M. M., Franklin Open Hearth Dept., Cambria Steel Co., and *for mail*, 108 Venango St., Johnstown, Pa.
- OTTO, Frederick Arthur (1913), Supt. Elec. Dept., St. Paul Gas Light Co., 6th and Jackson Sts., and *for mail*, 1064 Hague Ave., St. Paul, Minn.
- OTTO, Henry S. (Junior, 1909), Cons. Engr. and Mchy. Importer, 1876 Broadway, New York, N. Y.

- OTTO, Robert Walter (1912), Engr. in Charge Design and Constr., Andrews Htg. Co., Minneapolis, and *for mail*, 823 Holly Ave., St. Paul, Minn.
- OVIATT, David B. (1891), Asst. Engr., Bd. of Water Supply, City of N. Y., 147 Varick St., and 172 W. 109th St., New York, N. Y.
- OWEN, James (1894), Cons. Engr., 196 Market St., Newark, and *for mail*, Montclair, N. J.
- OWENS, Charles Trump (Associate, 1912), 1830 St. Paul St., Baltimore, Md.
- OWENS, Robert B. (Associate, 1892), Secy., The Franklin Inst., Philadelphia, Pa.
- PACKARD, Horace Nelson (Junior, 1911), Engr., Cutler Hammer Mfg. Co., and *for mail*, 567 Farwell Ave., Milwaukee, Wis.
- PACKHAM, Frank R. (1913), Mgr. Dept. Design and Patents, Am. Seeding Mch. Co., and 1583 High St., Springfield, O.
- PAGE, Charles E. (1912), 316 Westcott St., Syracuse, N. Y.
- PAINE, Sidney B. (1908), Mgr. Mill Power Dept., Genl. Elec. Co., 84 State St., Boston, and 78 Cypress St., Newton Centre, Mass.
- PAINTER, John G. (Junior, 1910), Cons. Engr., 1916 Spring Garden St., Philadelphia, Pa.
- PAINTER, Stephen Henry (1913), Mgr. Calyx Drill Dept., Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
- PALMER, Arthur C. H. (1900), Asst. Engr., Queensland Ry., and *for mail*, Commercial Union, Chas. Eagle St., Brisbane, Australia.
- PALMER, Arthur E. (Junior, 1909), Sales Engr., L. G. Finlay & Co., 710 N. E. Bldg., Cleveland, and *for mail*, 105 Carlyon Rd., East Cleveland, O.
- PALMER, George W., Jr. (1909), Elec. Engr., Bay State St. Ry. Co., 84 State St., and 58 Roslin St., Boston, Mass.
- PALMER, Perley Burnham (1910), Genl. Supt., Orono Pulp & Paper Co. of Bangor, Orono, Me.
- PALMER, Virgil Maro (Junior, 1905), Purchasing Engr., Eastman Kodak Co., Rochester N. Y.
- PALSGROVE, Grant K. (Junior, 1913), Asst. in Mech. Engrg., Rensselaer Poly. Inst., and *for mail*, 2307 12th St., Troy, N. Y.
- PANCOAST, Fred Lincoln (1913), Efficiency Engr., 48 Columbia Blvd., Waterbury, Conn.
- PANGBURN, Dwight Boyce (Junior, 1912), Instr., S. S. S., Yale Univ., 36 N. Sheffield Hall, and *for mail*, 731 Elm St., New Haven, Conn.
- PAPE, James Otto (Junior, 1908), Mgr., Wadena Grain Co., W. F. Starz & Co., Wadena, Ind.
- PARISH, Wm. F. (1902; 1904), Mgr. Lubricating Div., The Tex. Co., 17 Battery Pl., and 854 W. 180th St., New York, N. Y.
- PARISH, Wm. H. (Junior, 1905), Sales Engr., Westmoreland Coal Co., 224 S. 3d St., Philadelphia, and 76 W. Johnson St., Germantown, Philadelphia, Pa.

- PARK, Franklin A. (1900), V. P., The Singer Mfg. Co., 149 Broadway, New York, N. Y.
- PARK, Walter E. (1903), The Motor Club, Coventry St., London, W., England.
- PARK, William R. (1889), Cons. Engr., Hancock Inspirator Co., 23 Watson St., Sta. A, Boston, and 30 Prospect St., Taunton, Mass.
- PARKER, Austin Wilbur (1893; 1901), Mech. Engr., Blake & Knowles Steam Pump Wks., East Cambridge, and *for mail*, 694 Main St., Woburn, Mass.
- PARKER, Chas. D. (1886), Mech. Engr., A. Burlingame Co., 22 Cypress St., and *for mail*, 47 Fales St., Worcester, Mass.
- PARKER, Charles H. (1885; 1903), Asst. Supt. Generating Dept., The Edison Elec. Ill. Co. of Boston, 39 Boylston St., and 48 Beacon St., Boston, Mass.
- PARKER, Francis Warner, Jr. (Junior, 1913), Pat. Atty., Member of Firm, Parker & Carter, 1410 Marquette Bldg., Chicago, Ill.
- PARKER, George Alfred (1913), Mech. Asst. to Supt., Draftsman, The Am. Linoleum Mfg. Co., and *for mail*, Box 10, Linoleumville, S. I., N. Y.
- PARKER, James Wentworth (Junior, 1913), Ch. Asst. Engr. Power Plants, The Edison Ill. Co., 18 Washington Ave., and 284 Lawrence Ave., Detroit, Mich.
- PARKER, John (1909), Mch. Designer, Brown & Sharpe Mfg. Co., Providence, and *for mail*, 1061 Narragansett Blvd., Edgewood, R. I.
- PARKER, John Castlereagh (1905; 1909), Mech. and Elec. Engr., Rochester Ry. & Light Co., Rochester, N. Y.
- PARKER, John Clinton (1905), Genl. Mgr., Parker Boiler Co., Pa. Bldg., Philadelphia, Pa.
- PARKER, Lee Hamilton (1896), Ry. Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, and 40 Strathmore Rd., Brookline, Mass.
- PARKER, Levin S. (1908) Ch. Engr., Atlas Dredging Co., 1629 Whitehall Bldg., New York, and 1814 Ave J, Brooklyn, N. Y.
- PARKER, Roy Taylor (Junior, 1913), Supt., Campbell Motor Co., Wayzata, Minn.
- PARKER, Walter Edward (1881), Life Member; Agt., Pacific Mills, and *for mail*, 217 Haverhill St., Lawrence, Mass.
- PARKHURST, Frederick A. (Associate, 1904), Organizing Engr., The Aluminum Castings Co., and *for mail*, 52 Gladstone Ave., Detroit, Mich.
- PARKHURST, Harleigh (1913), Pres., Abenague Mch. Wks., Westminster Sta., Vt., and *for mail*, Walpole, N. H.
- PARR, Harry L. (1910), Asst. Prof. Mech. Engrg., Columbia Univ., New York, N. Y.
- PARROCK, H. P. (1911), Lumen Bearing Co., Buffalo, N. Y.
- PARSHALL, Horace Field (1893), Cons. Engr., Salisbury House, London Wall, E. C., London, England.
- PARSONS, Burt Hewitt (1912), Mech. Engr., Mississippi River Power Co., Keokuk, Ia.

- PARSONS, Edmund S. (Junior, 1909), Mech. Engr., Remington Typewriter Wks., and *for mail*, 358 Otsego St., Ilion, N. Y.
- PARSONS, Frederick W. (1889), Supt., Rand Drill Co., and Brookside Park, Tarrytown, and *for mail*, 300 Maple Ave., Elmira, N. Y.
- PARSONS, George K. (1911), V. P., Am. Vulcanized Fibre Co., Wilmington, Del.
- PARSONS, H. de B. (1885; 1887), Prof. Emeritus, Rensselaer Poly. Inst. of Troy; Cons. Engr., 22 William St., and 36 E. 61st St., New York, N. Y.
- PARSONS, Harry Noble (Junior, 1912), Asst. Mech. Engr. Charge of Purchase Sales, McKeen Motor Car Co., and *for mail*, 1814 Evans St., Omaha, Neb.
- PARSONS, W. Everett (1899), Cons. Engr., Marbridge Bldg., 34th St. and Broadway, New York, N. Y., and *for mail*, 818 De Graw Ave., Newark, N. J.
- PARSONS, William Claude (Junior, 1906), Blast Furnace Draftsman, Carnegie Steel Co., Homestead Steel Wks., Munhall, and *for mail*, 2433 Woodstock Ave., Braddock, Pa.
- PASCALL, Richard H. (1894), Pres., The Pickering Governor Co., and 329 Main St., Portland, Conn.
- PASSANO, Edward Boteler (1912), Pres. and Mgr., The Williams & Wilkins Co., 2427 Greenmount Ave., Baltimore, Md.
- PATERSON, James Venn (1912), Pres. and Genl. Mgr., Seattle Constr. & Dry Dock Co., Seattle, Wash.
- PATITZ, Gerhardt J. (1900; 1907), Ch. Engr., Peter Schoenhofen Brewing Co., 526 W. 18th St., Chicago, and 715 S. Ridgeland Ave., Oak Park, Ill.
- PATITZ, J. F. Max (1891; 1900), Cons. Mech. Engr., Allis-Chalmers Mfg. Co., and *for mail*, 473 38th St., Milwaukee, Wis.
- PATTERSON, A. W., Jr. (1897; 1903), Asst. Mgr., The Yale & Towne Mfg. Co., 9 E. 40th St., New York, N. Y., and *for mail*, Roselle, N. J.
- PATTERSON, Peter C. (Junior, 1897), Ch. Engr., Natl. Tube Co., 1716 Frick Bldg., Pittsburgh, and 905 S. Union Ave., McKeesport, Pa.
- PATTERSON, Wistar E. (Associate, 1909), Dept. Dev. and Design, Elec. Storage Battery Co., and *for mail*, Union League, Philadelphia, Pa.
- PATTISON, Frank A. (1903), Cons. Engr., Centurian Bldg., 1182 Broadway, New York, N. Y., and Colonia, N. J.
- PATTON, David Collins (Junior, 1912), Rep., The Midvale Steel Co., 251 Atlantic Ave., Boston, Mass., and *for mail*, 42 Ellsworth Ave., New Haven, Conn.
- PATTON, John H. (Junior, 1898), Engr. and M. M., N. Y. Tanning Extract Co., West and Green Sts., and *for mail*, 633 Leonard St., Brooklyn, N. Y.
- PAUL, Charles Edward (1908), Assoc. Prof. Mechanics, Armour Inst. of Tech., and *for mail*, 6238 Ellis Ave., Chicago, Ill.
- PAUL, John Wallace (1895; 1896), P. O. Box 85, Groton, N. Y.

- PAULSMEIER, Albert Carl (1910), V. P. and Ch. Engr., Byron Jackson Iron Wks., San Francisco, and *for mail*, 1530 Union St., Alameda, Cal.
- PAYNE, Nathan B. (Junior, 1903), Mgr. of Sales, Davis-Bournonville Co., 30 Church St., and 31 W. 10th St., New York, N. Y.
- PAYNE, Sheldon F. (1891; 1907), M. M., Goodyear's M. R. Shoe Co., and *for mail*, 18 Park Pl., Naugatuck, Conn.
- PAYSON, T. Elliott (Associate, 1906), Genl. Supt., The Seneca Falls Mfg. Co., Seneca Falls, N. Y.
- PEABODY, E. H. (1900), Marine Dept., The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y.
- PEARCE, Ernest L. (Associate-Member, 1913), Mgr., Lake Shore Eng. Wks., and *for mail*, 623 Spruce St., Marquette, Mich.
- PEARCE, Robert Thomas (1913), East. Mgr., H. W. Caldwell & Son Co., 50 Church St., New York, N. Y., and *for mail*, 70 Gates Ave., Montclair, N. J.
- PEARL, James J. (1891), 33 Allen Pl., Hartford, Conn.
- PEARSALL, Gilbert H. (Associate, 1908), V. P., Jacobs-Shupert Firebox Co., 30 Church St., New York, N. Y., and Orange Heights Ave., West Orange, N. J.
- PEARSON, Albert L. (1911), Elec. Engr., Lockwood, Greene & Co., 60 Federal St., Boston, and 11 Teele Ave., West Somerville, Mass.
- PEARSON, Charles Ivar (1912), Mech. Draftsman and Designer, 36 Trowbridge St., Cambridge, Mass.
- PEARSON, F. S. (1899), Life Member; Cons. Engr., 115 Broadway, New York, N. Y.
- PEARSON, Walter Ambrose (1907), 135 Front St., New York, N. Y.
- PEARSON, Walter B. (1886), Pres., Stand. Screw Co., 81 E. Madison St., and 6222 Sheridan Rd., Chicago, Ill.
- PECK, Chas. B. (1903; 1905), Mgr., B. F. Sturtevant Co., 50 Church St., New York, and 284 Halsey St., Brooklyn, N. Y.
- PECK, Eugene C. (1909), Genl. Supt., Cleveland Twist Drill Co., and 1242 E. 49th St., Cleveland, O.
- PECK, Henry W. (Associate, 1908), V. P. and Genl. Mgr., Schenectady Ill. Co., and Mohawk Gas Co., and 32 Waverly Pl., Schenectady, N. Y.
- PECK, Staunton B. (1890), V. P., Link-Belt Co., 39th St. and Stewart Ave., and 5006 Drexel Blvd., Chicago, Ill.
- PEDDLE, John B. (1909), Prof. Mch. Design, Rose Poly. Inst., and *for mail*, 2117 N. 10th St., Terre Haute, Ind.
- PEEBLES, Thomas Armstrong (1912), Partner, Harrington & Peebles, Advisory Engrs., 924 Consumers Bldg., and *for mail*, 6550 Ingleside Ave., Chicago, Ill.
- PEEK, George Meredith (1892; 1900), Mech. Engr. Charge Constr. Dept., St. Louis Water Wks., 34 E. Grand Ave., and 1285 Hamilton Ave., St. Louis, Mo.
- PEEL, Fred P. (Junior, 1912), 3627 Eleventh St., Washington, D. C.

- PEIRCE, Wm. Henry (1887), V. P. and Genl. Mgr., Baltimore Copper Smelting & Rolling Co., and The Severn Apts., Baltimore, Md.
- PELLISSIER, George E. (Associate, 1909), Genl. Mgr. and Treas., Pellissier Engrg. Co., 21 Besse Pl., and *for mail*, 796 Sumner Ave., Springfield, Mass.
- PELLY, Lorenzo J. (1912), Ch. Engr., Central San Agustin, San Agustin, Caibarien, Cuba.
- PELTON, Ernest Williams (1913), Supt. of Power, The Stanley Wks., and *for mail*, 77 Forest St., New Britain, Conn.
- PEMBERTON, Carlysle (Junior, 1912), Repair Wk. in Auto. Garage, Pemberton & Lyons, Oakland, Ill.
- PENDERGAST, Roland Ball (1912), 33 Summit Ave., Brookline, Mass.
- PENNEY, Harold D. (1913), Pat. Solicitor and Mech. Expt., Francis H. Richards, 9-15 Murray St., New York, N. Y.
- PENNEY, Rodney Clapp (1905), Mech. Engr., Dodge Mfg. Co., and *for mail*, 87 Montgomery St., Bangor, Me.
- PENNEY, Rupert L. (Junior, 1906), Testing Engr., Winchester Repeating Arms Co., New Haven, and *for mail*, 126 Willard St., Westville Sta., New Haven, Conn.
- PENNINGTON, James H. (1902), Supt. Constr. and Power, Am. Smelting & Refining Co., and *for mail*, 734 Roland Ave., Baltimore, Md.
- PENNOCK, G. A. (Junior, 1903), European Plant Engr., West. Elec. Co., Hawthorne Sta., Chicago, Ill., and Bell Tel. Mfg. Ct., Antwerp, Belgium.
- PENRUDDOCKE, J. H. (1889), Mech. Engr., Farm 1464, Muho-rini, British East Africa.
- PENTECOST, Arthur (1913), Supt., Peirce Patents Co., 220 Fifth Ave., New York, N. Y., and *for mail*, 75 N. Maple Ave., East Orange, N. J.
- PENTZ, Albert D. (1891), Box 33, West Lynn, Mass.
- PEPER, John Henry, Jr. (Junior, 1910), Engr., 26 Broadway, New York, and *for mail*, 404 Hancock St., Brooklyn, N. Y.
- PEPPER, Chester Lawrence (Junior, 1912), Safety Inspr., Mass. Employees Ins. Asso., 84 State St., Boston, and *for mail*, 57 County Rd., Chelsea, Mass.
- PERKINS, G. Hawthorne (Associate, 1907), Head Textile Engrg. Dept., Lowell Textile Sch., Lowell, Mass.
- PERKINS, Julius A. (1911), Mech. Engr., 42 Broadway, New York, N. Y.
- PERKINS, L. Arthur (Junior, 1913), U. S. Cast Iron Pipe & Fdy. Co., Addyston, Cincinnati, and Sayler Park P. O., Cincinnati, O.
- PERKINS, Nathan Waite, Jr. (1913), Engr. and Ch. Draftsman, Ellis Adding-Typewriter Co., 338 Elizabeth Ave., Newark, N. J.
- PERKS, George W. (1908), Supt., Am. Seeding Mch. Co., and 1325 E. High St., Springfield, O.
- PERRY, Ernest B. (1907), Mgr., Industrial Wks., and 2230 Center Ave., Bay City, Mich.

- PERRY, Frank B. (1902; 1908), Mill Power Dept., Genl. Elec. Co., 84 State St., Boston, and *for mail*, 53 Stearns St., Newton Centre, Mass.
- PERRY, George Arthur (1912), Mech. Engr., Jones & Lamson Mch. Co., Springfield, Vt.
- PERRY, Samuel B. (Junior, 1895), Ins. Engr., 68 William St., New York, and Hollis, L. I., N. Y.
- PERRY, Wm. A. (1880), 111 Broadway, and *for mail*, 7 E. 56th St., New York, N. Y.
- PESSANO, Antonio C. (1898), Pres. and Genl. Mgr., Great Lakes Engrg. Wks., and *for mail*, Hotel Tuller, Detroit, Mich.
- PETERS, R. F. (1913), Ch. Mech. Draftsman M. P. Dept., San Antonio & Aransas Pass Ry. Co., and *for mail*, 137 Leopold St., San Antonio, Tex.
- PETERSON, Carl H. (1910), Southwestern Rep., The Baldwin Loco. Wks., and Stand. Steel Wks. Co., 1612-1614 Wright Bldg., St. Louis, and 509 Lockwood Ave., Webster Grove, Mo.
- PETERSON, Edward T. (1913), Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co., 1161 Frick Annex, Pittsburgh, Pa.
- PETERSON, Franklin C. (1912), In Charge Engrs. and Draftsmen, West. Elec. Co., Hawthorne Sta., Chicago, and *for mail*, 641 Lyman Ave., Oak Park, Ill.
- PETERSON, John William (1911), 122 Reservoir Ave., Milwaukee, Wis.
- PETERSON, W. H. (Associate, 1913), Sales Engr., Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave., and *for mail*, 156 Orlin Ave., S. E., Minneapolis, Minn.
- PETTENGILL, George D. (Junior, 1907), Ch. Draftsman, Warsaw Elev. Co., and *for mail*, Box 742, Warsaw, N. Y.
- PETTINOS, George Francis (1913), Mfr. and Miner of Graphite, Pettinos Bros., and *for mail*, 122 Market St., Bethlehem, Pa.
- PETTIS, Clifton D. (1905), Wks. Mgr., Am. Brake Shoe & Fdy. Co., Mahwah, and Ridgewood, N. J.
- PFAU, Arnold (1913), Cons. Engr., Allis-Chalmers Mfg. Co., and *for mail*, 3017 McKinley Blvd., Milwaukee, Wis.
- PFEIFFER, Charles George (1913), Member of Firm, Specialty Engrg. Co., Emerald and Cornwall Sts., and *for mail*, 1338 Pike St., Philadelphia, Pa.
- PFISTERER, George Edward (Junior, 1913), Dist. Mgr., Green Engrg. Co., 1414 Chemical Bldg., and 727 Union Ave., St. Louis, Mo.
- PHARR, Eugene A. (1908), Sugar Planter and Mfr., Morgan City, La.
- PHARR, Henry Newton (1907), Sugar Planter and Mfr., Iberia Parish, Olivier, La.
- PHELPS, Charles C. (Junior, 1909), Publicity Dept., Ingersoll-Rand Co., 11 Broadway, New York, N. Y., and 119 Third St., Town of Union, N. J.
- PHELPS, Frederick Augustus (1892), Mech. Engr. and Mill Arch., Union Bldg., 9-15 Clinton St., Newark, and 100 Glenwood Ave., East Orange, N. J.

- PHILBRICK, Frank B. (1891), Pres., Waterville Iron Wks., and *for mail*, 20 College Ave., Waterville, Me.
- PHILBRICK, Herbert Shaw (1907; 1913), Prof. Mech. Engrg., Northwestern Univ., and *for mail*, 2130 Sherman Ave., Evanston, Ill.
- PHILIPP, Paul C. (Associate, 1913), 611 Chestnut St., Philadelphia, Pa.
- PHILLIPS, Ellis L. (Junior, 1901), Pres., E. L. Phillips & Co., 50 Church St., and 575 Riverside Drive, New York, N. Y.
- PHILLIPS, Franklin (1881), Pres., Hewes & Phillips Iron Wks., 8 Orange St., and 539 Mt. Prospect Ave., Newark, N. J.
- PICKOP, George Brooks (1908), Mech. Engr., 793 Albany Ave., Hartford, Conn.
- PIERCE, Edward L. (1898), V. P., Semet-Solvay Co., V. P., By-Products Coke Corp., Box 1 and 2, Syracuse, N. Y.
- PIERCE, Frederic Emery (1909), Ch. Engr., The N. J. Zinc Co., 55 Wall St., New York, N. Y., and 397 Turrell Ave., South Orange, N. J.
- PIERCE, Richard H. (1894), Cons. Engr., 35 Congress St., Boston, and *for mail*, 462 Walnut St., Newtonville, Mass.
- PIERCY, Edgar (1891), 218 Washington Ave., Elyria, O.
- PIERLE, Henry Charles (1911), Spec. Rep. and Engr., The R. K. LeBlond Mch. Tool Co., Cincinnati, O.
- PIERPONT, Robert (1911), Factory Mgr., Wis. Motor Mfg. Co., and *for mail*, 2316 Grand Ave., Milwaukee, Wis.
- PIERSEN, David Barnard (Associate, 1913), V. P., Stephens-Adamson Mfg. Co., and *for mail*, 488 Garfield Ave., Aurora, Ill.
- PIEZ, Charles (1894), Pres. and Treas., Link Belt Co., 39th and Stewart Ave., and Hotel Kenwood, 4700 Kenwood Ave., Chicago, Ill.
- PIGOTT, Reginald J. S. (Junior, 1912), I. R. T. Co., 600 W. 59th St., New York, N. Y.
- PILCHER, John A. (1895; 1904), Mech. Engr., Norfolk & West. Ry. Co., and *for mail*, 436 13th Ave., S. W., Roanoke, Va.
- PILLMORE, Frederick (1907), Mech. Engr., 257 Bryant Ave., Syracuse, N. Y.
- PILLSBURY, Charles Lucien (1912), Mech. and Elec. Cons. Engr., 805 Metropolitan Life Bldg., Minneapolis, Minn.
- PINGER, George C. (Junior, 1907), The Youngstown Sheet & Tube Co., and *for mail*, 721 Elm St., Youngstown, O.
- PINGREE, Edwin Daniel (1905), V. P. and Engr., Mfrs. Mutual Fire Ins. Co., 815 Grosvenor Bldg., and 99 Hamilton St., Providence, R. I.
- PINKERTON, Andrew (1892), Elec. Engr., Am. Sheet & Tin Plate Co., and *for mail*, P. O. Box 427, Pittsburgh, and 6605 Virginia Ave., Ben Avon, Pa.
- PINNEY, H. H. (1913), Mgr. of Wks., Chalmers Motor Co., Pres., Fairview Fdy. Co., V. P., Metal Products Co., Detroit, Mich.
- PITKIN, Stephen H. (1891), First V. P., Wellman-Seaver-Morgan Co., Cleveland, and *for mail*, 682 W. Market St., Akron, O.

- PITMAN, Stephen Minot (Associate, 1892), Secy., Narragansett Mut. Fire Ins. Co., P. O. Box 1422, and 97 William St., Providence, R. I.
- PLACE, Clyde R. (Associate, 1907), Mech. Engr., 70 E. 45th St., New York, N. Y., and River Edge, N. J.
- PLAINE, George Hunter (1912), Supt., Terry Steam Turbine Co., and *for mail*, 12 Baltimore St., Hartford, Conn.
- PLANT, John William (1911), The Yuba Constr. Co., 916 Insurance Exch. Bldg., San Francisco, and 24 Crystal Springs Rd., San Mateo, Cal.
- PLANTINGA, Pierre (Junior, 1894), Pres., Gas Mchy. Co., 1900 Euclid Ave., and 1913 E. 73d St., Cleveland, O.
- PLATT, John (1889; 1890), Pres., John Platt & Co., 97 Cedar St., New York, N. Y., and Westfield, Union Co., N. J.
- PLATT, Wilber O. (1902), V. P. and Supt., Jos. Reid Gas Eng. Co., Oil City, Pa.
- PLEASANTON, F. Rodney (Junior, 1908), Wks. Mgr., Mack Plant, Internatl. Motor Co., Allentown, Pa.
- PLUMB, Harold B. (1913), Wks. Mgr., Ia. Dairy Separator Co., and *for mail*, 505 Franklin St., Waterloo, Ia.
- PLUNKETT, Charles T. (1909), Pres. and Secy., Berkshire Cotton Mfg. Co., and 8 Park St., Adams, Mass.
- POHLE, Richard Franz (Junior, 1913), Asst. to Ch. Draftsman, Genl. Elec. Co., West Lynn, and *for mail*, 3 Goodridge St., East Lynn, Mass.
- POLAKOV, Walter Nicholas (1913), Cons. Engr., Day & Zimmermann, 613 Chestnut St., Philadelphia, Pa.
- POLK, Anderson (Associate, 1904), Assoc. with The Lowe Bros. Co. of Dayton, O., Paint Makers, 608 Continental Bldg., Baltimore, and 10 Elmwood Rd., Roland Park, Baltimore Co., Md., and *for mail*, Engrs.' Club, New York, N. Y.
- POLLAK, Charles P. (Associate, 1901), Engineers Club, 32 W. 40th St., New York, N. Y.
- POLLARD, Seabury G. (1912), Cons. Engr., Pollard & Ellms, Hyd. and Sanitary Engrs., 2806-2807 Union Central Bldg., and 3422 Burch Ave., Cincinnati, O.
- POLLEDO, Y. (Junior, 1888), Manzaneda 16, Matanzas, Cuba.
- POLSON, Joseph A. (1906; 1912), Assoc. Prof. Mech. Engrg., Charge Engrg. Lab., Mich. Agri. College, 201 Engrg. Bldg., East Lansing, Mich.
- POMEROY, Harry D. (1892; 1904), Continental Can Co., and *for mail*, 110 Baker Ave., Syracuse, N. Y.
- POMEROY, L. R. (1890; 1909), Cons. Engr., 105 W. 40th St., New York, N. Y., and 246 Berkeley Ave., Orange, N. J.
- POMEROY, William D. (1908), Genl. Supt., Goulds Mfg. Co., and *for mail*, 4 Johnston St., Seneca Falls, N. Y.
- POND, Henry O. (1904; 1907), Mech. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and Tenafly, N. J.
- POOLE, Cecil P. (1909), Cons. Engr., P. O. Box 1166, and 793 Piedmont Ave., Atlanta, Ga.

- POPE, Chas. Edwd. (1897), Mech. Engr., Natl. Malleable Castings Co., Cleveland, O.
- POPE, Frederick (1913), Cons. Engr., 366 Fifth Ave., New York, and Hartsdale, N. Y.
- POPE, Harold L. (1905; 1912), Engr. and Factory Mgr., West Wks., The Pope Mfg. Co., and 81 Fern St., Hartford, Conn.
- POPPENHUSEN, P. Albert (1912), Pres., Green Engrg. Co., 28 E. Jackson St., Chicago, Ill.
- PORTER, Charles Talbot (Junior, 1913), Instr. Mech. Engrg., Yale Univ., and *for mail*, 193 Lawrence St., New Haven, Conn.
- PORTER, Finley R. (1913), Ch. Engr., Mercer Auto. Co., Trenton, N. J.
- PORTER, George (1913), Cons. Engr., Box 327, and 108 Morgantown St., Unlontown, Fayette Co., Pa.
- PORTER, Holbrook F. J. (1880; 1884), Cons. Engr., Masonic Hall, 23d St. and Sixth Ave., and 15 E. 10th St., New York, N. Y.
- PORTER, H. Hobart (1902), Sanderson & Porter, Engrs., 52 William St., New York, and Lawrence, L. I., N. Y.
- PORTER, Hollis P. (1910), 4421 Laurel St., New Orleans, La., and 1222 Kansas Ave., Topeka, Kan.
- PORTER, John A. (1908), Genl. Supt., Bibb Mfg. Co., and *for mail*, P. O. Box 413, Macon, Ga.
- PORTER, Will Roswell (1910; 1913), Asst. M. M., S. S. White Dental Mfg. Co., S. I. Factory, and *for mail*, 5941 Amboy Rd., Prince Bay, S. I., N. Y.
- PORTERFIELD, Henry A. (1890), Mgr., Dexter Oil Co., Peoples Bldg., Pittsburgh, Pa.
- POSEY, James (Junior, 1907), Cons. Engr., 328 N. Charles St., and 4005 Liberty Heights Ave., Forest Park, Baltimore, Md.
- POSGATE, James Stephen (1912), Eagle Oil Co., Tampico, Mex.
- POSSELT, Ejnar (1907; 1913), Cons. Engr., Posselt & Co., 511 Ideal Bldg., Denver, Colo.
- POST, George Adams, Jr. (Junior, 1906), Sales Mgr., Stand. Coupler Co., 1005 Peoples Gas Bldg., and 4906 Sheridan Rd., Chicago, Ill.
- POTBURY, Alfred Henry (1911), Mech. Engr. with Robert Dalziel, Jr., 218 First St., San Francisco, and 1530 La Loma Ave., Berkeley, Cal.
- POTTER, Andrey A. (1912), Prof. Steam and Gas Engrg., Acting Dean of Engrg., Kan. State Agrl. College, Manhattan, Kan.
- POTTER, Philip Arthur (1911), Treas., Crownshield Trading Corp., 30 Church St., New York, and 50 Orange St., Brooklyn, N. Y.
- POTTER Wm. Bancroft (1897), Engr. Ry. and Traction Dept., Genl. Elec. Co., and 9 Morris Ave., Schenectady, N. Y.
- POTTER, Wm. Bleecker (1895), Mgr. and Ch. Engr., St. Louis Sampling & Testing Wks., 713 Clark Ave., and 4021 Washington Blvd., St. Louis, Mo.
- POTTS, S. Warren (1909), Mech. Engr., E. W. Bliss Co., Plymouth St., and *for mail*, 34 Shepherd Ave., Brooklyn, N. Y.

- POULTNEY, John Livingston (1908), Ch. Engr., James Boyd & Bro., Inc., 25th and Wharton Sts., Philadelphia, and Haverford, Pa.
- POWEL, Samuel W. (1880), Mech. Engr., Am. Radiator Co., and *for mail*, 679 Auburn Ave., Buffalo, N. Y.
- POWELL, E. Burnley (1904; 1912), Mech. Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- POWELL, John Edgar (1904), Cons. Engr., 307 Union Trust Bldg., and Box 25, Sta. H., Washington, D. C.
- POWELL, Marcus (Associate, 1897), Mgr., Crosby Steam Gage & Valve Co., 44 Dey St., New York, N. Y., and Avon-by-the-Sea, N. J.
- POWELL, William Henry (1908), Elec. Engr-in-charge, Allis-Chalmers Co., and 2508 Grand Ave., Milwaukee, Wis.
- POWER, Pomeroy W. (1903), Mech. Engr., Genl. Elec. Co., and *for mail*, 306 South St., Pittsfield, Mass.
- POWERS, Alexander Merrell (Junior, 1912), Mech. Engr., S. K. F. Ball Bearing Co., 50 Church St., New York, and *for mail*, 154 Sixth Ave., Brooklyn, N. Y.
- POWERS, James (1913), V. P., Powers Accounting Mch. Co., 50 Church St., New York, N. Y.
- PRATHER, H. B. (1893; 1895; 1898), Cons. Mech. and Efficiency Engr., 662 Rockefeller Bldg., and 2234 E. 80th St., Cleveland, O.
- PRATT, Charles Richardson (1896), Cons. Engr., 39 Gates Ave., Montclair, N. J.
- PRATT, Francis C. (1892; 1897), Asst. to Pres., Genl. Elec. Co., and 16 Washington Ave., Schenectady, N. Y.
- PRATT, Henry Fobes (Junior, 1913), Engr., Francisco & Jacobus, 200 Fifth Ave., New York, N. Y., and *for mail*, 26 William St., East Orange, N. J.
- PRATT, James Alfred (1908; 1910), Dir., Williamson Free Sch. of Mech. Trades, Williamson School P. O., Delaware Co., Pa.
- PRELLWITZ, William (1900), Ch. Engr., Ingersoll-Rand Co., Phillipsburg, N. J., and *for mail*, 66 N. 3d St., Easton, Pa.
- PRENTICE, Donald Bishop (Junior, 1913), Asst. Instr. Mech. Engrg., S. S. S., Yale Univ., and *for mail*, 77 Avon St., New Haven, Conn.
- PRENTICE, John (1913), Genl. Foreman, Wrot Steel Forge Dept., The Babcock & Wilcox Co., and 69 W. 3d St., Bayonne, N. J.
- PRESCOTT, Fred. M. (1901), Manager, 1905-1908; Pres., Fred. M. Prescott Steam Pump Co., 60th and Greenfield Aves., and 609 Lake Drive, Milwaukee, Wis.
- PRESSINGER, W. P. (Associate, 1903), Mgr. Compressor Dept., Chicago Pneu. Tool Co., 50 Church St., and 103d St. and Riverside Drive, New York, N. Y.
- PRESTES, Jose Augusto (1913), Mech. Engr., Rua da Saude No. 1, and *for mail*, Rua No. 1 Copacabana 14, Heme, Rio de Janeiro, Brazil, S. A.
- PRESTON, Geo. B. (1891; 1900), Asst. Prof. Steam Engrg., Columbia Univ., New York, N. Y. and 200 Sylvan Ave., Leonia, N. J.

- PRESTON, Ralph A. D. (Junior, 1912), Exper. Dept., Goodyear Tire & Rubber Co., and *for mail*, University Club, Akron, O.
- PRICE, Albert M. (1889; 1904), Cons. Mech. Engr., 617 W. Jackson Blvd., Chicago, and *for mail*, 825 Douglas Ave., Elgin, Ill.
- PRICE, Henry M. (1912), Mech. Engr., The Lamson Co., 423 Colorado Bldg., Washington, D. C., and *for mail*, 1721 W. North Ave., Baltimore, Md.
- PRICE, Melvin (Associate, 1905), Asst. Prof. Mch. Design, Univ. of Rochester, and 70 S. Union St., Rochester, N. Y.
- PRICE, Norman I. (Junior, 1902), Price & Martyn, 68½ Pitt St., Sydney, N. S. W., Australia.
- PRICE, William T. (Junior, 1910), Oil Eng. Sales Mgr., De La Vergne Mch. Co., foot of E. 138th St., New York, and *for mail*, 129 Sickels Ave., New Rochelle, N. Y.
- PRIMROSE, John (1907), Ch. Engr., Power Spec. Co., 111 Broadway, New York, N. Y.
- PRINCE, Walter F. (1905), Supt. Fdy. Dept., Henry R. Worthington, Harrison, and 1365 North Ave., Elizabeth, N. J.
- PRINDLE, Edwin Jay (1910), Pat. Law, Prindle & Wright, Trinity Bldg., 111 Broadway, New York, N. Y.
- PRIOR, Wilbur Church (Junior, 1913), Asst. to Exper. Engr., The New Departure Mfg. Co., Bristol, and *for mail*, Forestville, Conn.
- PROAL, Arthur B., Jr. (1905), Sales Engr., Robins Conveying Belt Co., Park Row Bldg., 13 Park Row, New York, N. Y., and *for mail*, 30 Edgewood Ave., Nutley, N. J.
- PROCTOR, Redfield (1905; Associate, 1906), Asst. Genl. Supt., Vt. Marble Co., Proctor, Vt.
- PROSSER, Joseph George (1891; 1898), 1301 E. 60th St., Chicago, Ill.
- PROSSER, Thomas (Associate, 1893), Thomas Prosser & Son, 15 Gold St., New York, N. Y.
- PROUT, Henry Byrd (Junior, 1911), Salesman, Westinghouse Mch. Co., 201 Devonshire St., Boston, and 61 Pleasant St., Brookline, Mass.
- PRYOR, Frederick L. (1900; 1906), Prof. Exper. Engrg., Stevens Inst. of Tech., Hoboken, and 421 Fourth Ave., Newark, N. J.
- PRYOR, Robert W., Jr. (1907; 1913), Member of Firm, Koithan & Pryor, 39 Cortlandt St., New York, N. Y., and 199 Roseville Ave., Newark, N. J.
- PUCHTA, Edward (1909), Asst. Supt., Employment and Welfare, West. Elec. Co., Hawthorne Sta., and *for mail*, 23 S. Central Park Ave., Chicago, Ill.
- PUGSLEY, Edwin (Junior, 1911), Winchester Repeating Arms Co., and *for mail*, 77 Everit St., New Haven, Conn.
- PULIS, Wm. Eugene (Junior, 1909), Industrial Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 253 Maple Ave., Edgewood Park, Swissvale, Pa.
- PULMAN, Thomas Chas. (1908), Sales Mgr., Worthington Pump Co., Ltd., 153 Queen Victoria St., London, and 43 Birch Grove, Acton Hill, London, England.

- PULSIFER, Harold M. (1907), 1622, 431 S. Dearborn St., and 111 Bellevue Pl., Chicago, Ill.
- PURDY, Henry T. (1909), Mgr., Purdy Engrg. Co., San Jose, Costa Rica, C. A.
- PURINTON, Arthur James (1893), care of East St. Louis & Suburban Ry. Co., East St. Louis, Ill.
- PURINTON, Jacob W. (Junior, 1913), Draftsman and Engr., D. M. Dillon Steam Boiler Wks., and The Fay Club, Fitchburg, Mass.
- PUSEY, Charles W. (1880), Manager, 1892-1895; Life Member; Inspc. Engr., The Pusey & Jones Co., Wilmington, Del.
- PUTNAM, J. Russell (1913), Mech. Engr., Waterbury Clock Co., and *for mail*, 64 Woodside Ave., Waterbury, Conn.
- PUTNAM, Morris Havens (1910), Engr. and Genl. Mgr., Terry Constr. Co., 252 W. 60th St., New York, N. Y.
- QUICK, Howard Prescott (1894), Mech. Engr., The Pearson Engrg. Corp., Ltd., 115 Broadway, New York, and 532 Third St., Brooklyn, N. Y.
- QUICK, Ray Lewis (Junior, 1911), Isthmian Canal Com., Pedro Miguel, Canal Zone, and 426 W. Mill St., Ithaca, N. Y.
- QUIGLEY, Jas. Edwin (Junior, 1900), Mgr. Insulation Dept., Armstrong Cork Co., 23d and River, and *for mail*, 466 Rebecca St., Pittsburgh, Pa.
- QUIGLEY, Wirt Stanley (1913), V. P., Quigley Furnace & Fdy. Co., 105 W. 40th St., and 3495 Broadway, New York, N. Y.
- QUIMBY, William E. (1889; 1905), Pres., William E. Quimby, Inc., 548 W. 23d St., New York, N. Y., and Llewellyn Park, Orange, N. J.
- QUINN, Charles Henry (1912), Asst. Engr. M. P., Norfolk & West. R. R. Co., and *for mail*, Hotel Roanoke, Roanoke, Va.
- QUINT, Alanson D. (1891), Mgr., Turret Drill Co., 12 Wells St., and *for mail*, 8 Clinton St., Hartford, Conn.
- QUIRKE, Edward D. (1911), Designer and Checker, Natl. Tube Co., and *for mail*, 212 S. Tremont St., Kewanee, Ill.
- RAE, John (1912), Ch. Draftsman, Tabor Mfg. Co., Philadelphia, and *for mail*, 5231 Pine St., West Philadelphia, Pa.
- RAJAGOPALAN, T. R. (Junior, 1912), Draftsman, The Carnatic Mill Co., Ltd., Perambore Barracks, and *for mail*, 31 Vullam Bungarn Chetty St., Vepery, Madras, India.
- RALPH, John J. (Junior, 1913), Spicer Mfg. Co., and *for mail*, 129 W. 2d St., Plainfield, N. J.
- RAMSAY, Herbert Hartley (Junior, 1910), Asst. Engr. with John Hays Hammond and Harris Hammond, 71 Broadway, and *for mail*, 15 E. 48th St., New York, N. Y.
- RAMSDEN, John Thomas (1906), Ch. Engr., The Tabor Mfg. Co., 18th and Hamilton Sts., and *for mail*, 1911 N. 17th St., Philadelphia, Pa.
- RAMSEY, William H. C. (1913), Supt., Johnstown Water Co., 332 Locust St., Johnstown, Pa.
- RANDALL, Dwight T. (1904), Cadillac Motor Car Co., Detroit, and *for mail*, 161 California Ave., Highland Park, Mich.

- RANDALL, John Arthur (1911; 1913), Acting Head Dept. of Physics, Pratt Inst., 215 Ryerson St., and 226 Willoughby Ave., Brooklyn, N. Y.
- RANDLES, George E. (1912), V. P., in Charge of Mfg. and Sales, The Foote-Burt Co., Cleveland, O.
- RANDOLPH, L. S. (1884), Life Member; Cons. Engr., Dean Engrg. Dept., Va. Poly. Inst., Blacksburg, Va.
- RANKIN, Thos. L. (1892), Sacketts Harbor, N. Y.
- RANKIN, William A. (1907), Elec. Engr., Copper Range Consld. Co., Painesdale, Mich.
- RANSOHOFF, Nathan (Junior, 1912), Genl. Supt., Ideal Concrete Mch. Co., Monmouth St., near Colraine, 2929 Vernon Pl., Cincinnati, O.
- RANSOM, T. W. (1909), Cons. Mech. Engr., Bd. of Pub. Wks., and 16 Belmont Ave., San Francisco, Cal.
- RAPLEY, Frederick Harvey (1905), 500 Caxton House, Westminster, London, S. W., England.
- RAQUÉ, Philip E. (1891), Cons. Engr., 132 Nassau St., New York, N. Y., and 82 Booraem Ave., Jersey City, N. J.
- RASMUSSEN, Find (1913), Genl. Supt., Greenlie-Halliday Co., 499 Water St., New York, and *for mail* 5817 15th Ave., Brooklyn, N. Y.
- RATHBUN, Edward (1908), Second V. P., Rathbun-Jones Engrg. Co., Toledo, O.
- RATHBUN, Geo. Jay (1904), V. P. and Engr., Rathbun-Jones Engrg. Co., and 2447 Collingwood Ave., Toledo, O.
- RATTLE, Paul S. (1908; 1913), Mgr. Pump and Compressor Dept., The Mine & Smelter Supply Co., 17th and Blake Sts., and 1310 E. Colfax Ave., Denver, Colo.
- RAU, Frank B. (Associate, 1913), Asst. Mgr. Westfield Factory, Pope Mfg. Co., and *for mail*, 47 Pleasant St., Westfield, Mass.
- RAUTENSTRAUCH, Walter (1904; 1911), Prof. Mech. Engrg., Columbia Univ., New York, N. Y.
- RAWSON, Louis W. (Associate, 1904), Supt., The Washburn Shops, Worcester Poly. Inst., and 130 Elm St., Worcester, Mass.
- RAY, David H. (1904; 1911), Life Member; Cons. Engr., 27 W 33d St., Secy. and Treas., Kensington Mfg. Co., 545 W. 79th St., and *for mail*, 72 E. 77th St., New York, N. Y.
- RAY, Frederick (Junior, 1903), Ch. Engr., Alberger Pump & Condenser Co., 140 Cedar St., New York, N. Y., and Hemlock Rd., Short Hills, N. J.
- RAY, Martin Hassett (Junior, 1912), Cons. Engr., Dept. of Public Safety of Philadelphia, Pa., Field Supvr. Training Sch. for Public Service, Bureau of Municipal Research, 261 Broadway, and *for mail*, 828 St. Nicholas Ave., New York, N. Y.
- RAY, Walter Thornton (1912), in Charge Engrg. Dept., Clinchfield Fuel Co., Spartanburg, S. C.
- RAYMOND, Alfred (1904), Genl. Mgr., Drainage, 503 City Hall Annex, and *for mail*, 1324 Nashville Ave., New Orleans, La.

- RAYMOND, Herbert Emmons (Junior, 1906), Mech. Engr., Shelton Springs, Vt.
- RAYMOND, Ward (1901), Asst. Engr., Ingersoll-Rand Co., Phillipsburg, N. J., and *for mail*, 908 Paxinosa Ave., Easton, Pa.
- RAYNAL, Alfred H. (1884), Manager, 1889-1902; Mech. Engr. Bureau of Steam Engrg., Navy Dept., and *for mail*, 1626 Riggs Pl., N. W., Washington, D. C.
- RAYNES, Harry C. (1913), H. C. Raynes, Inc., 40 Central St., Boston, Mass.
- REA, James Childs (Junior, 1911), Supt. Rivet, Track, Bolt and Galvanizing Depts., Oliver Iron & Steel Co., S. 10th St. and Woodland Rd., Pittsburgh, Pa.
- READ, B. K. (Junior, 1912), Instr., Univ. of Wis., and *for mail*, 405 E. Johnson St., Madison, Wis.
- READ, Carleton A. (1893; 1900), Prof. Steam Engrg., Worcester Poly. Inst., and 15 Hackfeld Rd., Worcester, Mass.
- READ, George Franklin (1907; 1910), Asst. Mech. Supt., Clark Thread Co., Clark and Ogden Sts., and *for mail*, 238 Belleville Ave., Newark, N. J.
- READ, Rollin T. (Junior, 1913), Engrg. Dept., Sayles Bleacheries, Saylesville, R. I., and 47 Maple St., Milton, Mass.
- REARDON, P. H. (Associate, 1911), Pres. and Genl. Mgr., Compressed Air & Mch. Co., 39-51 Stevenson St., and 415 Fillmore St., San Francisco, Cal.
- REARICK, Chas. B. (1892; 1901), Pres. and Mgr., Conn. Turbine Mfg. Co., 81 Hamilton St., New London, Conn.
- REASONER, Ralph B. (1912), Perry, Ia.
- REBER, Louis E. (1891), Dean Univ. Extension Div., Univ. of Wis., and 630 Frances St., Madison, Wis.
- RECORD, James L. (1912), Pres. and Genl. Mgr., Minneapolis Steel & Mch. Co., and *for mail*, 343 Oak Grove St., Minneapolis, Minn.
- REDFIELD, Snowden B. (1910), Engr. of Tests, Ingersoll-Rand Co., Phillipsburg, N. J., and *for mail*, 64 N. 2d St., Easton, Pa.
- REDLEIN, George L. (Associate-Member, 1913), Engr., Van Gelder, Knoeppel & Young, 55 Liberty St., New York, and 1394 Fillmore Ave., Buffalo, N. Y.
- REED, Chester Turner (Junior, 1906), Pur. Engr., Reed & Prince Mfg. Co., and *for mail*, 1215 Main St., Worcester, Mass.
- REED, Edgar Howard (1905; 1913), Supt., Reed & Prince Mfg. Co., Duncan Ave., and *for mail*, Wildwood Ave., Worcester, Mass.
- REED, Fred M. (1906), Mech. Engr., Morse Twist Drill & Mch. Co., New Bedford, Mass.
- REED, Hudson William (Associate, 1913), Management Engr., Day & Zimmermann, 611 Chestnut St., Philadelphia, Pa.
- REED, James (1913), U. S. Navy Yard, Puget Sound, Wash.
- REED, Samuel Gorden (Junior, 1896), Pres., Neahkahnne Mountain Land Co., Nehalem, and 299 Vista Ave., Portland, Ore.
- REED, William E. (1898), 71 Broadway, and *for mail*, 175 W. 72d St., New York, N. Y.

- REEDER, Charles L. (1907), Cons. Engr., 917-921 Equitable Bldg., and The Montreal, Baltimore, Md.
- REEDER, Nathaniel S., Jr. (1902; 1907), West. Steel Car & Fdy. Co., 1470 Old Colony Bldg., Chicago, Ill.
- REESE, Dale Fleming (Junior, 1907), Supt. Steam Boiler Dept., Ocean Accident & Guarantee Corp., Ltd., 59 John St., New York, N. Y., and 311 Belleville Ave, Newark, N. J.
- REEVE, Charles D. (1891), V. P. and Factory Mgr., Grand Rapids Brass Co., 90 Scribner Ave., and 307 Auburn Ave., Grand Rapids, Mich.
- REEVE, Sidney A. (1901), Cons. Engr., 20 Central Ave., Tompkinsville, S. I., N. Y.
- REEVES, William Henry (1913), Pres., Reeves & Skinner Mchy. Co., and *for mail*, 4156 Cleveland Ave., St. Louis, Mo.
- REGAN, Joseph Charles (1911), Asst. Genl. Supt., Yale & Towne Mfg. Co., and 45 Hillcrest Ave., Stamford, Conn.
- REGAN, Ralph Howard (Junior, 1911), Inspr., Isthmian Canal Com., Corozal, Canal Zone, and 519 W. 66th St., Chicago, Ill.
- REID, Edward Snover (Junior, 1896), Engr., No. Engrg. Wks., and 70 Pingree Ave., Detroit, Mich.
- REID, John Simpson, Sr. (1898), Asst. Prof. Mech. and Mch. Drawing, Armour Inst. of Tech., and *for mail*, 6239 Greenwood Ave., Chicago, Ill.
- REID, Joseph (1904), Pres. Joseph Reid Gas Eng. Co., Main St., and 21 Orange St., Oil City, Pa.
- REID, Joseph Snively (1911), Secy., Ch. Engr., Clark Bros. Co., and *for mail*, 202 Laurens St., Olean, N. Y.
- REID, Marcellus (1903), Mech. and Cons. Engr., 506 Caxton Bldg., and 1865 E. 86th St., N. E., Cleveland, O.
- REID, Robert C. (1907), Mgr. Truck Dept., Harrolds Motor Car Co., 233 W. 54th St., New York, N. Y., and *for mail*, Englewood, N. J.
- REID, Wm. L. (1903), Genl. Wks. Mgr., Am. Loco. Co., and 842 Union St., Schenectady, N. Y.
- REIFSNYDER, James D. (Associate, 1913), Ch. Draftsman, Stokes & Smith Co., Summerdale, Philadelphia, and *for mail*, 5505 Mascher St., Philadelphia, Pa.
- REILLY, Charles Joseph (Associate, 1912), M. M., Cristobal Marine Shops, Dry Dock, Cristobal, Canal Zone.
- REILLY, Wm. J. (1901), Dist. Sales Mgr., The Babcock & Wilcox Co., 435 17th St., and 1219 Milwaukee St., Denver, Colo.
- REIMER, Arthur Adams (1912), Engr. Water Dept., City Hall, and *for mail*, 45 S. Maple Ave., East Orange, N. J.
- REINICKER, Norman Graves (Junior, 1913), Boiler Rm. Engr., Delray Power Houses, The Edison Ill. Co., and 445 Cass Ave., Detroit, Mich.
- REISS, George T. (1890), V. P., Niles Tool Wks., Hamilton, O.
- REIST, H. G. (1889; 1893), Manager, 1909-1912; Vice-President, 1913-1915; Mech. Engr., Genl. Elec. Co., and *for mail*, 110 Avon Rd., Schenectady, N. Y.
- RENNER, Roland B. (Junior, 1906), Mech. Engr., Jeffrey Mfg. Co., and *for mail*, 226 Buttles Ave., Columbus, O.

- RENO, Harold P. (Junior, 1907), Sayles' Bleacheries, and *for mail*, Orchard Ave., Saylesville, R. I.
- RENÖ, Jesse Wilford (1912), Cons. Engr., Otis Elev. Co., 11th Ave. and 26th St., New York, N. Y.
- RENOLD, Charles Garonne (Junior, 1906), Dir., Hans Renold, Ltd., Progress Wks., Manchester, and Catterick Hall, Fog Lane, Didsbury, Manchester, England.
- RENTSCHLER, Gordon Sohn (Junior, 1911), V. P. and Fdy. Mgr., The Hamilton Fdy. & Meh. Co., Hamilton, O.
- REPATH, Charles H. (1891), Repath & McGregor, 1211 Hollingsworth Bldg., and 2708 Menlo Ave., Los Angeles, Cal.
- REPLOGLE, Mark A. (1898), Sales Engr., The Lombard Governor Co., 1508 Fisher Bldg., Chicago, Ill., and 65 Aqueduct St., Akron, O.
- REUNERT, Theodore (1901), Senior Partner, Reunert & Lenz, Engrs., Box 92, Johannesburg, S. A., and care of Findlay, Durham & Brodie, 110 Cannon St., London, E. C., England.
- REUTER, Francis J. G. (Associate-Member, 1913), Tool Designer and Checker, West. Elec. Co., and *for mail*, 309 N. Menard Ave., Austin, Chicago, Ill.
- REYNOLDS, Frank W. (1912), Member of Firm, Lockwood, Greene & Co., 60 Federal St., Boston, and 13 Everett Ave., Winchester, Mass.
- REYNOLDS, Herbert Byron (Junior, 1912), Asst. Engr. M. P. Dept., Interborough Rapid Transit Co., 59th St., and 11th Ave., and *for mail*, 61 W. 71st St., New York, N. Y.
- REYNOLDS, Irving H. (1896), Mgr. Eng. Dept., Allis-Chalmers Mfg. Co., and *for mail*, 339 Prospect Ave., Milwaukee, Wis.
- REYNOLDS, John P., Jr. (Junior, 1902), Mech. Engr., Dept. of Water Supply, Park Row Bldg., New York, N. Y., and *for mail*, 28 Myrtle Ave., Plainfield, N. J.
- REYNOLDS, Philip Edgar (Junior, 1911), Mech. Engr., Freeport Sulphur Co., Freeport, Brazoria Co., Tex., and Manasquan, N. J.
- REYNOLDS, Scott (Junior, 1912), Salesman and Engr., Latta-Martin Pump Co., Hickory, and *for mail*, Greensboro, N. C.
- RHOADS, George Elwood (Junior, 1906), Asst. Foreman, Loco. Test Plant, Pa. R. R., and *for mail*, 1320 20th Ave., Altoona, Pa.
- RHODES, George Harold (Junior, 1913), Bishop & Co., Los Angeles, Cal.
- RICE, Alva C. (1890), Cons. Hyd. and Mech. Engr., 5 Oberlin St., Worcester, Mass.
- RICE, Arthur L. (1895; 1902), Managing Editor, The Practical Engineer, Cons. on Power Plant Engrg., 537 S. Dearborn St., Chicago, Ill.
- RICE, Calvin W. (1900), Cons. Engr., Secretary, Am.Soc.M.E., 29 W. 39th St., New York, N. Y., and 241 N. Mountain Ave., Upper Montclair, N. J.
- RICE, Charles De Los (1907), Genl. Supt., Underwood Type-writer Co., 581 Capitol Ave., and 1043 Prospect Ave., Hartford, Conn.

- RICE, George W. (1906; 1912), Wks. Mgr., Aultman Taylor Mch. Co., and *for mail*, 35 Blymyer Ave., Mansfield, O.
- RICE, Myron Wesley (Junior, 1911), Am. Engrg. Co., Cumberland St., Philadelphia, Pa., and 50 Houghton St., Worcester, Mass.
- RICE, Richard H. (1890), Manager, 1904-1907; Genl. Elec. Co., and 124 Ocean St., West Lynn, Mass.
- RICH, Edward P. (1911), V. P. and Secy., Neiler, Rich & Co., 1409 Manhattan Bldg., and 4541 Woodlawn Ave., Chicago, Ill.
- RICHARDS, Charles B. (1880), Manager, 1880-1882; Vice-President, 1888-1890; Prof. Emeritus Mech. Engrg., Yale Univ., and *for mail*, 227 Edwards St., New Haven, Conn.
- RICHARDS, Chas. Dexter (Junior, 1904), Asst. Engr. of Tests, Solvay Process Co., and *for mail*, 266 Meadowbrook Ave., Detroit, Mich.
- RICHARDS, Charles R. (1890), Dir., Cooper Union, and 175 Second Ave., New York, N. Y.
- RICHARDS, Chas. Russ (1892; 1901), Prof. Mech. Engrg., Charge of Dept., Univ. of Ill., and 1103 W. Nevada St., Urbana, Ill.
- RICHARDS, Charles W. (1913), Factory Mgr., Twombly Motors Co., 258 W. 69th St., New York, N. Y., and *for mail*, 258 Springfield St., Chicopee, Mass.
- RICHARDS, Francis H. (1880), Life Member; Mech. Engr., Pat. Atty., 9-15 Murray St., New York, N. Y., and *for mail*, 112 Edwards St., Hartford, Conn.
- RICHARDS, Frank (1891), Managing Editor, Compressed Air Magazine, and Ingersoll-Rand Co., 11 Broadway, and *for mail*, 229 W. 135th St., New York, N. Y.
- RICHARDS, George M. (1912), Mgr., The Richards Co., and *for mail*, 450 E. 7th St., Erie, Pa.
- RICHARDS, Thomas Gleason (1912), Pres. and Mgr., B. & R. Rubber Co., and *for mail*, Box A, North Brookfield, Mass.
- RICHARDS, Willard F. (1909), Mech. Supt., Gould Coupler Co., Depew, N. Y.
- RICHARDS, William A. (Junior, 1903), Dir. of Vocational Education, City of Rockford, High Sch. Bldg., Rockford, Ill.
- RICHARDSON, Alfred S. (Associate, 1913), 161 School St., Lowell, Mass.
- RICHARDSON, Alton A. (1913), Asst. Engr., Castner Electrolytic Alkali Co., 24th St. and Buffalo Ave., and 526 Eleventh St., Niagara Falls, N. Y.
- RICHARDSON, Ammi Carleton (Junior, 1913), Engrg. Dept., Am. Thread Co., 549 Main St., and *for mail*, 598 Dwight St., Holyoke, Mass.
- RICHARDSON, Charles Germane (1911), Sales Engr. Meter Dept., Builders Iron Fdy., and *for mail*, 135 Adelaide Ave., Providence, R. I.
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- RICHARDSON, Edward Bridge (1910), Partner, Richardson & Hale, Cons. Engrs., 85 Water St., Boston, and 7 Chatham St., Brookline, Mass.

- RICHARDSON, George Edward (Associate, 1910), Lancaster, Mass.
- RICHARDSON, George Partridge (Junior, 1901), Mech. Engr., Engr. of Constr., Isbell-Porter Co., 46 Bridge St., Newark, and Wyoming, N. J.
- RICHARDSON, Levi S. (1909), Engr., Rochester Vacuum Valve Co., 522 Granite Bldg., and *for mail*, 443 Meigs St., Rochester, N. Y.
- RICHARDSON, Thomas (1907), Ch. Draftsman, W. S. Barstow & Co., 50 Pine St., New York, N. Y., and *for mail*, 9 Concord St., South Norwalk, Conn.
- RICHART, Fred W. (1905), Dist. Supt., Central Ill. Public Service Co., and 403 W. Ellis Ave., Carterville, Ill.
- RICHMOND, Harold A. (Junior, 1898), Pres., Am. Emery Wheel Wks., 325 Waterman St., and *for mail*, 88 Cooke St., Providence, R. I.
- RICHMOND, Julian (1903; Associate, 1908), Asst. Engr., Bd. of Water Supply, Municipal Bldg., New York, and Dunwoodie Heights, Yonkers, N. Y.
- RICHMOND, Knight C. (1891; 1908), Cons. Engr., 526 Banigan Bldg., and 41 Cooke St., Providence, R. I.
- RICHTER, Arthur Wm. (Junior, 1892), Univ. of Mont., Missoula, Mont.
- RICHTER, Ernst (1890), Mech. Engr., The G. A. Gray Co., Cincinnati, and *for mail*, LaFayette Circle, Clifton, Cincinnati, O.
- RICKCORD, Reginald Victor G. (Junior, 1913), Cluett, Peabody & Co., Inc., and *for mail*, 10 First St., Troy, N. Y.
- RICKER, Wm. Wood (1906), Treas. and Secy., Guarantee Constr. Co., 140 Cedar St., and 65 Park Ave., New York, N. Y.
- RICKETTS, Edwin Burnley (Junior, 1908), N. Y. Edison Co., 40th St. and 1st Ave., and 1061 Boston Rd., New York, N. Y.
- RICKETTS, Palmer Chamberlaine (1892), Pres. and Prof. Mech., Rensselaer Poly. Inst., Troy, N. Y.
- RICKEY, Walter J. (1903), The Singer Mfg. Co., Ltd., Singer, Clydebank, Scotland.
- RIDDELL, A. H. (1901), Machold & Riddell, 1020 Stephen Girard Bldg., Philadelphia, Pa., and Mountwell Ave., Haddonfield, N. J.
- RIDDELL, John (1895), Mech. Supt., Genl. Elec. Co., Schenectady Wks., and *for mail*, 1138 Duane Ave., Schenectady, N. Y.
- RIDDLE, Howard Sterling (1905), Cons. Engr., Ohio Bd. of Administration, Hartman Bldg., Columbus, and *for mail*, Shepard, O.
- RIDER, Geo. Smith (1900), Cons. Engr., Geo. S. Rider & Co., Century Bldg., and *for mail*, 1808 E. 65th St., Cleveland, O.
- RIDER, Thomas J. (1894), Mech. Engr., Rider-Bagg Co., and 90 Westminster St., Springfield, Mass.
- RIDGELY, William Barret (1880; 1895), Banker and Mfr., 934 Marbridge Bldg., 34th St. and Broadway, New York, N. Y., and *for mail*, 1908 Q St., N. W., Washington, D. C.
- RIEGE, Rudolph (1911), Management of Engr'g. Dept., Wright Schooley & Morse, 902-904 Woolworth Bldg., 233 Broadway, and 17 W. 37th St., New York, N. Y.

- RIESENBERGER, Adam (1890), Registrar and Treas., Stevens Inst. of Tech., Hoboken, and 546 Union Pl., Town of Union, N. J.
- RIGBY, Albert Vernon (Junior, 1913), M. M. Sharon Wks., Carnegie Steel Co., and *for mail*, 32 Lafayette St., Sharon, Pa.
- RIGDON, Carl (Junior, 1907), Supt. Light and Power, Chattanooga Ry. & Light Co., 710 Market St., and 904 Bailey Ave., Chattanooga, Tenn.
- RIGGS, F. Stanley (Junior, 1913), Exper. Dept., Goodyear Tire & Rubber Co., and *for mail*, 41 Spruce St., Akron, O.
- RIGGS, John D. (Junior, 1892), Designer, 707 Court St., Kankakee, Ill.
- RIGHTER, Addison A. (1909), 1252 First Natl. Bank Bldg., Chicago, Ill.
- RIKER, Andrew L. (1897; 1899), Manager, 1906-1909; V. P., Locomobile Co. of Am., Bridgeport, and *for mail*, Fairfield, Conn.
- RILEY, Joseph C. (1909), Assoc. Prof. Mech. Engrg., Mass. Inst. of Tech., Boston, and 77 Rockview St., Jamaica Plain, Mass.
- RILEY, R. Sanford (1906), Pres. Sanford Riley Stoker Co., Ltd., 314 Main St., and 228 West St., Worcester, Mass.
- RINK, George William (1907), Mech. Engr. M. P. Dept., Central R. R. of N. J., and *for mail*, 104 Claremont Ave., Jersey City, N. J.
- RIPPEY, S. Howard (1904; 1905), Cons. Engr., Stephen Girard Bldg., Philadelphia, and 610 W. Upsal St., Germantown, Philadelphia, Pa.
- RIPSCH, Charles William (Junior, 1908), Cons. Mech. Engr., 113 Hawthorn St., Dayton, O.
- RISTEEN, Allan Douglas (1912), Engr. Engrg. and Inspg. Div., Travelers Ins. Co. and Travelers Indemnity Co., Hartford, Conn.
- RITTENOUR, Frederick H. (1913), Draftsman Dept. of Marine Engrg. and Naval Constr., U. S. Naval Academy, and *for mail*, 16 Franklin St., Annapolis, Md.
- RITTER, Elmer Ralph (Junior, 1912), Asst. Mech. Engr., The Lunkenheimer Co., Box 876, Cincinnati, O.
- RITTER, Henry (1900), Supt., The Lunkenheimer Co., and 4208 Glenway Ave., Price Hill, Cincinnati, O.
- RIVETT, Edward (1904), Allerton, Mass.
- RIX, Edward Austin (1896), Pres. and Mgr., Rix Compressed Air & Drill Co., 219 Spear St., San Francisco, Cal.
- ROBB, A. G. (1902), Ch. Engr., Internatl. Engrg. Wks., Amherst, N. S., Canada.
- ROBB, D. W. (1888), Mgr., Internatl. Engrg. Wks., 131 State St., Boston, and Wellesley Hills, Mass.
- ROBBINS, C. C. (Associate, 1904), Secy. and Genl. Mgr., The Cleveland Crane & Engrg. Co., Wickliffe, O.
- ROBBINS, John L. (Junior, 1908), Mech. Engr., Robbins, Gamwell & Co., Pittsfield, Mass.
- ROBBINS, Percy Arthur (Associate, 1901), Genl. Mgr., Canadian Min. & Finance Co., Timmins, Ont., Canada.

- ROBERTS, A. L. (1909), Designing Engr., Brown Hoisting Mch. Co., and 8515 Linwood Ave., Cleveland, O.
- ROBERTS, E. P. (1889), Cons. Engr. and Ch. City Smoke Inspr., 1123 Schofield Bldg., and *for mail*, 2053 E. 96th St., Cleveland, O.
- ROBERTS, Edward Francis (1913), Genl. Supt., Packard Motor Car Co., Detroit, Mich.
- ROBERTS, George J. (1888), First V. P., Pub. Service Corp. of N. J., Pub. Service Corp. Bldg., Newark, N. J.
- ROBERTS, Montague H. (Junior, 1912), Motor Vehicle Engr., 253 Bergen Ave., Jersey City, N. J.
- ROBERTS, Percival, Jr. (1888), Vice-President, 1893-1895; 717 Arcade Bldg., Philadelphia, and *for mail*, Narberth, Montgomery Co., Pa.
- ROBERTS, Thomas Mayo (1912), Elec. Engr. Sales Dept., Crocker-Wheeler Co., Ampere, and *for mail*, 27 Wellington Ave., West Orange, N. J.
- ROBERTSON, Charles James (1913), Designer of Printers' Mch., Huber Hodgman Ptg. Press Co., and *for mail*, 114 Winthrop St., Taunton, Mass.
- ROBERTSON, John C., Jr. (Junior, 1913), Inspr. Fireproof Bldgs., N. Y. Bd. of Fire Underwriters, New York, N. Y., and *for mail*, 36 S. Maple Ave., East Orange, N. J.
- ROBERTSON, R. A. (1888), Treas., Providence Engrg. Wks., and *for mail*, 50 Stimson Ave., Providence, R. I.
- ROBERTSON, Ralph Noyes (1913), Power Engr., Am. Smelting & Refining Co., and *for mail*, 3441 Alcott St., Denver, Colo.
- ROBESON, Anthony Maurice (1895), "Beauvoir" St. Aubin, Jersey, Channel Islands.
- ROBINSON, A. W. (1883), Manager, 1896-1899; Life Member; Cons. Mech. Engr., 14 Phillips Sq., Montreal, Que., Canada.
- ROBINSON, Arthur L. (1908), Engrs.' Club, 32 W. 40th St., New York, N. Y.
- ROBINSON, C. Snelling (1900), Second V. P., Youngstown Sheet & Tube Co., and *for mail*, Old Furnace Rd., Youngstown, O.
- ROBINSON, Charles Griffith (1913), Engr., Wheeling Steel Casting Co., Oliver Bldg., and *for mail*, 5504 Hays St., Pittsburgh, Pa.
- ROBINSON, Edward (1891; 1902), Prof. Mech. Engrg., Univ. of Vt., and *for mail*, 25 Colchester Ave., Burlington, Vt.
- ROBINSON, Edward P. (1891), Supt., The Atlantic Wks., 80 Border St., East Boston, Mass.
- ROBINSON, Frank H. (1903), Treas., Walter H. Foster Co., 1479 Fulton Bldg., 50 Church St., New York, N. Y.
- ROBINSON, Garland P. (1902; 1909), Asst. Ch. Inspr., Loco. Boilers, Interstate Commerce Com., and *for mail*, 1840 Biltmore St., Washington, D. C.
- ROBINSON, H. B. (1897), Mech. Engr., Supt. of Shops, Allentown Rolling Mills, and *for mail*, P. O. Box 135, Allentown, Pa.
- ROBINSON, J. Albert M. (Junior, 1912), Hyd. Engr., The Am. Well Wks., 454 First Natl. Bank Bldg., and *for mail*, 6205 Ingleside Ave., Chicago, Ill.

- ROBINSON, James R. (1905), Pres., Robinson Ventilating Co., 8044-8045 Jenkins Arcade Bldg., Pittsburgh, and *for mail*, Mt. Lebanon, Allegheny Co., Pa.
- ROBINSON, Louis G. (1905; 1913), Louis G. Robinson Lab., Metallurgy and Ceramics, Harrison Bldg., Cincinnati, O., and *for mail*, 4th and Park Ave., Newport, Ky.
- ROBINSON, Rhea Hamilton (1912; 1913), Asst. Supt., Milwaukee Wks., Internatl. Harvester Co., and *for mail*, 382 24th Ave., Milwaukee, Wis.
- ROBINSON, Walter P. (Associate-Member, 1913), Sales Engr., No. Crane Wks., Ltd., and The Elec. Controller & Mfg. Co., 1222 Traders Bank Bldg., Toronto, Ont., Canada.
- ROCKWELL, Samuel Forbes (1912), Mfg. Supt., Davis & Furber Mch. Co., North Andover, Mass.
- ROCKWELL, Willard F. (Junior, 1913), Industrial Engr., Clinton H. Scovell & Co., 40 Central St., Boston, and *for mail*, 870 South St., Roslindale, Mass.
- ROCKWOOD, Geo. I. (1891), Manager, 1903-1906; Life Member; Cons. Engr., 38 Harlow St., and 340 May St., Worcester, Mass.
- ROCKWOOD, George O. (1911), Pres., The Rockwood Mfg. Co., P. O. Box 636, Indianapolis, Ind.
- RODGERS, Horace Philip (Junior, 1912), Mech. Engr., 2099 E. 71st St., Cleveland, O.
- RODGERS, Myron Knox (1904), Min. Engr., P. O. Box 825, Seattle, Wash.
- ROE, Joseph W. (1902), Asst. Prof., S. S. S., Yale Univ., and *for mail*, 84 Trumbull St., New Haven, Conn.
- ROE, Mark W. (1900; 1909), Mech. Engr., Diamond Rubber Co., and *for mail*, 11 Nellie Ave., Akron, O.
- ROE, Walter E. (1902), Ch. Engr., Dodge Mfg. Co., and 913 E. 2d St., Mishawaka, Ind.
- ROELKER, Carl J. (1909), Cons. Engr., State Bank Bldg., Richmond, Va.
- ROELKER, H. B. (1889), Mech. Engr., 41 Maiden Lane, and 43 W. 97th St., New York, N. Y.
- ROESLER, Dr. Rudolf (Junior, 1910), Pres., Concordia, Vega, Credit Petrolifer, Roumanian Enterprises of Deutsche Erdoel Actiengesellschaft, 10 Strada Lipsani, Bukarest; Roumania.
- ROGERS, Charles Edward (Associate, 1898), Fraser & Chalmers, Ltd., 3 London Wall Bldgs., London, E. C., England.
- ROGERS, Edwin Allan (Junior, 1911), Operation and Maintenance Dept., Pacific Gas & Elec. Co., 445 Sutter St., and *for mail*, 4860 17th St., San Francisco, Cal.
- ROGERS Fred. E. (Associate, 1907), Editor, Machinery, 140-148 Lafayette St., New York, N. Y., and *for mail*, 6 Garfield Pl., East Orange, N. J.
- ROGERS, John I. (Junior, 1910), Treas. and Engr., Eagan-Rogers Steel & Iron Co., Crum Lynne, and 2201 St. James Pl., Philadelphia, Pa.

- ROGERS, Lewis C. (1912), Exper. Engr., The Solvay Process Co., and 439 Vinewood Ave., Detroit, Mich.
- ROGERS, Robert Fletcher (1912), Pat. Lawyer, 45 Broadway, New York, N. Y.
- ROGERS, Robert W. (Junior, 1908), Practical and Tech. Instr. of Apprentices, Erie R. R. Shop, and *for mail*, 25 Ferguson Ave., Port Jervis, N. Y.
- ROGERS, Winfield S. (1888), Pres., Bantam Anti-Friction Co., Bantam, Conn.
- ROHLIG, Georg Gustav (1909), Dir. and Genl. Supt., Botany Worsted Mills, and *for mail*, 145 Dayton Ave., Passaic, N. J.
- ROHRER, Albert L. (1896), Elec. Supt., Genl. Elec. Co., and *for mail*, Lenox Rd., Schenectady, N. Y.
- ROLLINS, Henry Martin (1913), Supt., Gulfport Creosoting Co., Gulfport, Miss.
- ROLLINS, William Benjamin (1911), Cons. Engr., Rollins & Westover, 420 Midland Bldg., res., 3608 Park Ave., Kansas City, Mo.
- RONEY, William R. (1889), Pres., Securities & Constr. Co. of Am., 15 William St., and 158 W. 81st St., New York, N. Y.
- ROONEY, Martin Aloysius (Junior, 1912), Ch. Smoke Insp. of Nashville, City Hall, Nashville, Tenn.
- ROOS, Delmar G. (Associate-Member, 1913), Asst. Exper. Engr. Engrg. Dept., Locomobile Co. of Am., and *for mail*, Box 863, Bridgeport, Conn.
- ROOT, Orlando J. (1898), Moline Auto. Co., Inc., 1732-1740 W. Washington St., Los Angeles, and 269 Satsuma Ave., Eagle Rock, Cal.
- ROPER, Norman Brownell (1905), 320 W. 6th St., Santa Ana, Cal.
- ROSBOROUGH, Caldwell R. (Associate, 1913), Secy., Williams, White & Co., and 1235 Eleventh Ave., Moline, Ill.
- ROSE, E. Ernest (Junior, 1900), Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 1949 Delaware Ave., Swissvale, Pa.
- ROSE, Fred Wayland (Associate-Member, 1913), Cons. Elec. and Mech. Engr., 470-475 Auditorium Bldg., Minneapolis, Minn.
- ROSE, John H. (Associate, 1907), Secy. and Genl. Mgr., Bradford Elec. Light & Power Co., Bradford, Pa.
- ROSENCRANTS, Fay Harry (Junior, 1913), Instr. Mech. Engrg., Ore. Agri. College, Corvallis, Ore.
- ROSING, William H. V. (1896), Spec. Engr., St. L. & S. F. R. R., Frisco Bldg., Springfield, Mo.
- ROSS, Charles Everett (1900), Cons. Engr., 52 Beaver St., and *for mail*, Hotel Chelsea, W. 23d St., New York, N. Y.
- ROSS, Sir Charles Henry A. F. L. (1910), Pres., Ross Rifle Co., Quebec, Que., Canada.
- ROSS, Frank Eugene (1913), Supt. and Partner, Gilro Mch. Co., Oakland, Cal.
- ROSS, John L. (1912), Owner, Ross & Young Mch. Co., McDougall and Jefferson Aves., and 1055 Jefferson Ave., Detroit, Mich.

- ROSS, Philip Lawrence (Junior, 1910), Mech. Engr., Gunn, Richards & Co., 43 Exchange Pl., New York, N. Y.
- ROSS, Taylor W. (Junior, 1895), Supt. Repairs and Docks, Newport News Shipbuilding & Dry Dock Co., and *for mail*, 3112 West Ave., Newport News, Va.
- ROSSBERG, Chas. Andrew (Junior, 1903), Ch. Draftsman, Veeder Mfg. Co., and *for mail*, 127 Oakland Terrace, Hartford, Conn.
- ROSSMAN, James R., Jr. (Junior, 1910), Asst. Supt., Am. Agri. Chem. Co., Carteret, N. J., and 776 Beacon St., Boston, Mass.
- ROTE, John G. (Junior, 1911), 3 Dana St., Cambridge, Mass.
- ROTH, Adolph (Junior, 1913), Mech. Draftsman, Otis Elev. Co., and *for mail*, 9 Van Cortlandt Park Ave., Yonkers, N. Y.
- ROTTER, Max (1899), Ch. Engr., Busch-Sulzer Bros-Diesel Eng. Co., Second and Utah Sts., St. Louis, Mo.
- ROUEBUSH, Roy Everett (1913), Designing and Engrg., Hart-Parr Co., and 306 Third Ave., Charles City, Ia.
- ROUX, Paul (Associate, 1890), 9 rue des Bluets, Paris, France.
- ROWBOTTOM, George (1909), Pres., Rowbottom Mch. Co., and 233 Willow St., Waterbury, Conn.
- ROWE, D. Ray (Junior, 1911), Ch. Engr., The Kidder-Oswald Co., 5th and Norwood Ave., and 1056 Demphle Ave., Dayton, O.
- ROWE, George F. (1908), Mech. Engr., Bangor, Me.
- ROWELL, Henry K. (1911), Industrial Engr., Prin. Asst. Charge Organization Dept., Chas. T. Main, Boston, and *for mail*, 135 Dale St., Waltham, Mass.
- ROWLAND, Charles Bradley (1885; 1894), V. P., The Continental Iron Wks., Greenpoint, Brooklyn, N. Y.
- ROWLAND, Thomas F., Jr. (1884), Pres., The Continental Iron Wks., West and Cayler Sts., Brooklyn, N. Y.
- ROWLEY, Frank B. (1911; Associate-Member, 1913), Instr. Engrg., Drawing and Descriptive Geometry, Univ. of Minn., and *for mail*, 217 Beacon St., S. E., Minneapolis, Minn.
- ROWLEY, Harry William (1896), Genl. Mgr., Boston Development & Sanitary Co., 1140 Old South Bldg., Boston, and 37 University Rd., Brookline, Mass.
- ROWLEY, Ridgway Lloyd (Junior, 1910), Inspc. Engr., Bd. of Fire Underwriters of the Pacific, 914 Merchants Exch., San Francisco, and 398 60th St., Oakland, Cal.
- ROWNTREE, Bernard (Associate, 1911), East. Mgr., Burdett-Rowntree Mfg. Co., Rm. 1774, 50 Church St., New York, N. Y., and The Rowans, Oradell, N. J.
- ROWNTREE, Frank Lambert (1913), Mfg. Supt., Foster, Merriam Co., Meriden, and 10 Hanover Ave., P. O. Box 51, South Meriden, Conn.
- ROWSE, William Crapo (Junior, 1912), Cutler-Hammer Mfg. Co., 144th St. and Southern Blvd., New York, and *for mail*, 825 Argyle Rd., Brooklyn, N. Y.
- ROYLE, Vernon (1907), Pres. and Treas., John Royle & Sons, and *for mail*, 618 E. 28th St., Paterson, N. J.
- ROYLE, Vernon Elmer (Junior, 1905), Mech. Engr., John Royle & Sons, and *for mail*, 399 15th Ave., Paterson, N. J.

- ROYS, Lawrence (Junior, 1907), Supt. Outside Constr., Bucyrus Co., South Milwaukee, Wis.
- ROYSE, Daniel (1891; 1904), Asst. to V. P., Union Pacific R. R., 165 Broadway, New York, N. Y.
- RUBLE, Joseph Shirk (1913), Samuel Austin & Son Co., and *for mail*, 10,103 Westchester Ave., Cleveland, O.
- RUCKER, B. Parks (1909), Cons. Engr., Commercial Bank Bldg., and 515 N. Church St., Charlotte, N. C.
- RUCKES, Jos. J., Jr. (1902; 1911), Engr. with Geo. F. Hardy, 309 Broadway, and *for mail*, 954 Anderson Ave., New York, N. Y.
- RUDDY, William (Junior, 1911), 961 St. Nicholas Ave., New York, N. Y.
- RUDOLPH, Frank (1913), Mgr. Equip. Dept., Am. Can Co., 447 W. 14th St., New York, N. Y.
- RUETENIK, B. P. (Junior, 1913), Power Engr., Cleveland Ill. Co., 624 Engineers Bldg., and *for mail*, 3404 Scranton Rd., Cleveland, O.
- RUGAN, Henry Fisler (1900), Assoc. Prof. Mech. Arts, Tulane Univ. of La., and 1309 State St., New Orleans, La.
- RUGGLES, Wm. Barker (1905), Pres., Ruggles-Coles Engrg. Co., 50 Church St., New York, N. Y., and 91 W. 5th St., Bayonne, N. J.
- RUMELY, William N. (1885), Pres., Rumely-Wachs Mchy. Co., 121 N. Jefferson St., Chicago, Ill.
- RUMSEY, Spencer S. (1900; 1907), Ch. Engr., Oliver Iron Min. Co., 713 Wolvin Bldg., and 217 S. 19th Ave., E., Duluth, Minn.
- RUNYON, Frederick O. (1909), Cons. Engr., 122 Market St., Newark, and 9 Hickory Drive, Maplewood, N. J.
- RUPF, Ernest L. (Junior, 1907), Mech. Expt., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 15 Monroe Pl., Port Chester, N. Y.
- RUPP, M. E. (1909; Associate-Member, 1913), Engr-Inspr., Isthmian Canal Com., Washington, D. C., and *for mail*, 303 E. 4th St., New York, N. Y.
- RUPPEL, Richard (Junior, 1912), Mech. Engr., Griggs & Holbrook, 3 S. William St., New York, N. Y.
- RUSBATCH, Alfred (1901), Supt., Rod Mills, 1786 E. 89th St., Cleveland, O.
- RUSBY, John M. (1893), Engr. of Tests, United Gas Improvement Co., Broad and Arch Sts., and The Avondale, 39th and Locust Sts., Philadelphia, Pa.
- RUSHMORE, David Barker (1897; 1903), Ch. Engr. Power and Min. Dept., Genl. Elec. Co., and 234 Union St., Schenectady, N. Y.
- RUSSEL, Walter S. (1887), Manager, 1893-1896; Vice-President, 1897-1899; Life Member; Pres. and Genl. Mgr., Russel Wheel & Fdy. Co., Chene St. and Belt Line R. R., Detroit, Mich.
- RUSSELL, Foster (Junior, 1911), Agt. Commer. Dept., Wash. Water Power Co., and *for mail*, 2702 E. 8th Ave., Spokane, Wash.

- RUSSELL, Thomas N. (1913), Mech. Engr., Chicago-Cleveland Car Roofing Co., 427 Peoples Gas Bldg., Chicago, Ill.
- RUSSELL, Walter B. (1906; 1909), Dir., Franklin Union, Boston, and *for mail*, 58 Arborway, Jamaica Plain, Boston, Mass.
- RUST, Robt. R. (1912), Engr. in Charge of Operation, also Asst. Secy., The Central Fdy. Co., and *for mail*, 310 W. 97th St., New York, N. Y.
- RUST, William F. (1904), Genl. Supt., The Otis Steel Co., Cleveland, O.
- RUTH, Wilbur M. (1886), Fombell, Beaver Co., Pa.
- RUTHERFORD, Eugene W. (1904; 1911), Mech. Engr. and Asst. to Genl. Mgr., U. S. Rubber Co., 42 Broadway, New York, and *for mail*, 231 Jefferson Ave., Brooklyn, N. Y.
- RUTHERFORD, G. S. (1901; 1907), Mgr., The Kan. Chem. Mfg. Co., The Solvay Process Co., Lessee, and 402 Ave. A, E., Hutchinson, Kan.
- RUUD, Edwin (1889), Pres., The Ruud Mfg. Co., 29th and Smallman Sts., and 4735 Maripoe Ave., Pittsburgh, Pa.
- RYAN, William John (Junior, 1912), Asst. Mech. Engr., Pa. Coal & Coke Corp., 17 Battery Pl., and *for mail*, 202 Riverside Drive, New York, N. Y.
- RYDER, Gilbert E. (1913), Sales Engr., Loco. Superheater Co., Rm. 2001, 30 Church St., New York, and 116 Saratoga Ave., Yonkers, N. Y.
- RYDER, Malcolm P. (Associate, 1901), Engr., Witherbee Igniter Co., Birnie Ave. and Arch St., and 86 Calhoun St., Springfield, Mass.
- RYDING, Herbert Charles (1900), Asst. to V. P., Tenn. Coal, Iron & R. R. Co., and 1400 S. 19th St., Birmingham, Ala.
- RYERSON, William N. (1906), Genl. Mgr., Great No. Power Co., Duluth, Minn.
- ST. CLAIR, James Thorpe (Junior, 1901), 717 Navarre Bldg., St. Louis, Mo.
- SABIN, Alvah Horton (1896), Cons. Chem., Natl. Lead Co., 129 York St., Brooklyn, and *for mail*, 432 Sanford Ave., Flushing, L. I., N. Y.
- SACHS, Joseph (1911), V. P. and Genl. Mgr., The Sachs Laboratories, Inc., 103-105 Allyn St., Hartford, Conn.
- SADLER, Cornelius Robinson (1913), Asst. Supt., The Babcock & Wilcox Co., and 212 Park Ave., Barberton, O.
- SAEGMULLER, George Nicholas (1911), Mech. Engr., Mfr., V. P., Bausch & Lomb Optical Co., and *for mail*, 1100 St. Paul St., Rochester, N. Y.
- SAFFORD, Arthur Truman (1904), Asst. Engr., Locks and Canals, Cons. Hyd. Engr., 66 Broadway, and 30 Talbot St., Lowell, Mass.
- SAGUE, James Edward (1887), Commissioner, Pub. Service Com., Second Dist., Albany, and Cliffdale, R. D. 2, Poughkeepsie, N. Y.
- SAGUE, Samuel Reston (Junior, 1908), Sales Engr. Power House Equip., Strong, Carlisle & Hammond Co., Cleveland, and *for mail*, 58 Idlewood St., East Cleveland, O.

- SAHLIN, Axel (1893), Managing Dir., Internatl. Engrg. Co., 52 Rue du Congrès, Brussels, Belgium.
- SAKATA, S. (1891), Prof. Mech. Engrg., Tokio Tech. College, Asakusa, Tokio, and *for mail*, 24 Nakacho Ushigome, Tokio, Japan.
- SALDANA, Eduardo E. (Associate, 1903), Mech. and Ch. Engr., Central "Monserrate," Manati, and *for mail*, P. O. Box 906, San Juan, also Santurce, P. R.
- SALMON, Frederick Wm. (1900; 1904), Civ. and Mech. Engr., 719 N. 18th St., Birmingham, Ala.
- SALTZMAN, Auguste L. (1908), Supt. Primary Battery Plant, Thomas A. Edison, Inc., Silver Lake, and *for mail*, 53 Wilcox Ave., East Orange, N. J.
- SAMMIS, Norman Lewis (Junior, 1912), Rep., Builders Iron Fdy., Philadelphia, and *for mail*, The Wood Norton, Germantown, Philadelphia, Pa.
- SAMPSON, Charles C. (1909), Supt. Gas Power Sta., Minn. Steel Co., New Duluth, Minn.
- SAMPSON, George T. (Associate, 1912), Asst. Ch. Engr., Nichols Copper Co., Laurel Hill, L. I., and *for mail*, 464 Pulaski St., Brooklyn, N. Y.
- SANBORN, Francis Noel (Junior, 1895), Pres., Sanborn-Russell Constr. Co., Inc., 37 Liberty St., New York, and *for mail*, 47 Brevoort Pl., Brooklyn, N. Y.
- SANBORN, Frank Edwin (1904), Prof. Industrial Arts, Ohio State Univ., and 90 E. 14th St., Columbus, O.
- SANDERS, Newell (1888), Manager, 1902-1905; Prop., Newell Sanders Plow Co., Chattanooga, Tenn.
- SANDERSON, Edwin N. (1903), Sanderson & Porter, 52 William St., and 131 Riverside Drive, New York, N. Y.
- SANDERSON, E. S. (1895; 1903), care of Scovill Mfg. Co., and *for mail*, 155 Buckingham St., Waterbury, Conn.
- SANDERSON, Orrin W. (Junior, 1912), Little Falls, N. Y.
- SANDMAN, August George (1913), Ch. Draftsman, M. P. Dept., Baltimore & Ohio R. R. Co., Baltimore, and *for mail*, 2310 Roslyn Ave., Walbrook, Baltimore, Md.
- SANDO, Will J. (1899), Manager, 1908-1911; Cons. Engr., Milwaukee Club, Milwaukee, Wis.
- SANFORD, George Ruggles (1910), Supt., Semet-Solvay Co., and 2 Park Pl., Geneva, N. Y.
- SANFORD, Warren Bixby (1912), Acting Supt., West. Elec. Co., 463 West St., and *for mail*, 139 W. 11th St., New York, N. Y.
- SANGSTER, Andrew (1900; 1908), Supt., Canadian Ingersoll-Rand Co., and *for mail*, 84 Drummond St., Sherbrooke, Que., Canada.
- SANGSTER, William (1894), Mech. Engr., De Laval Dairy Supply Co., Ltd., Peterboro, Ont., Canada.
- SANGUINETTI, Philip C. (Associate, 1909), Production Engrg. Dept., Marwick, Mitchell & Co., 79 Wall St., and 875 Hunts Point Ave., New York, N. Y.

- SANKEY, Capt. H. Riall (1911), Marconi House, Strand, London, W. C., and *for mail*, 7 Charlbury Grove, Ealing, W., England.
- SARGENT, Chas. E. (1891), Ch. Engr., Lyons Atlas Co., and *for mail*, 2272 N. Meridian St., Indianapolis, Ind.
- SARGENT, Fitz-William (1893), Ch. Engr., Am. Brake Shoe & Fdy. Co., Box 15, Mahwah, Bergen Co., N. J.
- SARGENT, Frederick (1901), Mech. Engr., Sargent & Lundy, Ry. Exch., Chicago, res., Harbor St., Glencoe, Cook Co., Ill.
- SARGENT, Henry Bradford (1898), Sargent & Co., and *for mail*, 247 Church St., New Haven, Conn.
- SARGENT, John W. (1886), Mech. and Cons. Engr., 303 Benefit St., Providence, R. I.
- SARGENT, William Durham (1896), Chairman Bd. of Directors, Reading-Bayonne Steel Casting Co., Bayonne, and Hutton Park, West Orange, N. J.
- SARGENT, Wm. Prescott (1909), Pres., Mailing Device Co., Ltd., 1225 Spring Garden St., Philadelphia, and 604 66th Ave., Oak Lane, Philadelphia, Pa.
- SAR VANT, Wilbur N. (1907; Associate-Member, 1913), Asst. Engr., Am. Process Co., 68 William St., New York, and *for mail*, 1324 Dean St., Brooklyn, N. Y.
- SATHERBERG, Carl Hugo (1893), Ch. Engr., Midvale Steel Co., Nicetown, and 1752 N. 26th St. Philadelphia, Pa.
- SATTERFIELD, Howard E. (1908; 1910), Prof. Mech. Engrg., N. C. College of Agri. and Mech. Arts, West Raleigh, N. C.
- SAUNDERS, A. M. (1898), Supt., Natl. Tube Co., and 1416 Library Ave., McKeesport, Pa.
- SAUNDERS, William Lawrence (1906), Chairman of Bd., Ingersoll-Rand Co., 11 Broadway, New York, N. Y., and 112 Rockview Ave., Plainfield, N. J.
- SAWDON, Will Miller (1910), Asst. Prof. Exper. Engrg., Cornell Univ., and 1018 E. State St., Ithaca, N. Y.
- SAWFORD, Frank (1909), Elec. Engr., Canadian Collieries (Dunsmuir), Ltd., and 1546 Bank St., Victoria, B. C., Canada.
- SAWYER, Harry (1896), Cons. Engr., Shaw Elec. Crane Co., and *for mail*, 6 Ransom St., Muskegon, Mich.
- SAWYER, Luke Eugene (Junior, 1911), Asst. to Foreman Wrought Steel Dept., The Babcock & Wilcox Co., and *for mail*, 137 Broadway, Bayonne, N. J.
- SAXON, William (1906), V. P. and Wks. Mgr., Miehle Ptg. Press & Mfg. Co., Chicago, and *for mail*, 117 Maple Ave., Oak Park, Ill.
- SAYER, Eugene Young (1910), 60 Wall St., and 258 Riverside Drive, New York, N. Y.
- SAYERS, William W. (1901; 1906), Engr., Link Belt Co., 39th St. and Stewart Ave., and *for mail*, 3913 Ellis Ave., Chicago, Ill.
- SAYRE, William Heysham (1911), Pres., Am. Abrasive Metals Co., 50 Church St., New York, N. Y., and Glen Ridge, N. J.

- SCARBOROUGH, Francis Winthrop (1905), Cons. Engr., 513 Travelers Bldg., Richmond, Va.
- SCHAAKE, William (Junior, 1898), Engr. Ry. Engrg. Dept., Westinghouse Elec. & Mfg. Co., Pittsburgh, Pa.
- SCHADEK, Edward William (1912), Ch. Engr., The Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave., and 4057 Flad Ave., St. Louis, Mo.
- SCHAEFER, Frederick Rullman (Junior, 1911), Dist. Sales Mgr., Taylor-Wharton Iron & Steel Co., Rm. 730, 30 Church St., and 1 Gramercy Park, New York, N. Y.
- SCHAEFER, John V. (Junior, 1891), V. P., Roberts & Schaefer Co., 2064 McCormick Bldg., Chicago, Ill.
- SCHAEFFER, Simon S. (Junior, 1904), Ch. Mech. Engr., Thompson-Starrett Co., 51 Wall St., and *for mail*, 710 W. 179th St., New York, N. Y.
- SCHAEFFLER, Joseph C. (1900; 1904; 1907), Arch. and Engr., 38-40 W. 32d St., and 151 W. 91st St., New York, N. Y.
- SCHAKEL, J. D. (Associate, 1907), Mech. Engr., Otis Elev. Co., P. O. Box 156, and 141 French St., Buffalo, N. Y.
- SCHALLER, Alwin Louis (Junior, 1911), Supt., McEwen Bros., and *for mail*, 275 N. Main St., Wellsville, N. Y.
- SCHAPHORST, William Frederick (Junior, 1913), Asst., A. Eugene Michel & Staff, Woolworth Bldg., and 503 W. 148th St., New York, N. Y.
- SCHAUM, Otto W. (1894), Pres., Schaum & Uhlinger, Inc., Mfrs. of Textile Mchy., and Pres., Atlas Ball Co., Glenwood Ave. and 2d St., and *for mail*, 1508 W. Allegheny Ave., Philadelphia, Pa.
- SCHEDIN, Per Hjalmar (1913), Ch. Draftsman, Midvale Steel Co., Nicetown, Philadelphia, Pa.
- SCHEEL, Henry Van Riper (1909; 1913), Brighton Mills, and *for mail*, Rosemawr, Passaic, N. J.
- SCHEELE, John M. B. (Junior, 1900), 1479 Fulton Bldg., 50 Church St., New York, N. Y.
- SCHIEFFLER, Frederick A. (1883), Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 293 Ridgewood Ave., Glen Ridge, N. J.
- SCHENCK, Charles (Junior, 1902), Supt., Elev. Supply & Repair Co., 561 Monroe St., Chicago, and 146 N. Taylor Ave., Oak Park, Ill.
- SCHERR Frederick, Jr. (Associate, 1907), Ch. Engr., Fajardo Sugar Co., Fajardo, P. R.
- SCHEURMANN, Walter P. (1913), Genl. Mgr., The Hill-Tripp Pump Co., Anderson, Ind.
- SCHIEFER, Fred William (Junior, 1911), Mgr. Buffalo Office, Syracuse Supply Co., 622 Ellicott Sq., and *for mail*, 60 W. Parade Ave., Buffalo, N. Y.
- SCHILDHAUER, Edward (1911), Elec. and Mech. Engr., Isthmian Canal Com., Culebra, Canal Zone.
- SCHLACHTER, Carl H. (1906), Supt. Engr., Botany Worsted Mills, and *for mail*, 266 Harrison St., Passaic, N. J.

- SCHLACKS, W. J. (1909), McCord & Co., Peoples Gas Bldg., and 848 Ainslie St., Chicago, Ill.
- SCHLATTER, Rudolf (1910), Engr. Charge of Design, Busch-Sulzer Bros-Diesel Eng. Co., Second and Utah St., and 4116A Hartford St., St. Louis, Mo.
- SCHLESINGER, Georg (1905), Prof. Engrg., Tech. Hochschule, Charlottenburg, 2, Berlinerstr. 171, Germany.
- SCHMID, Albert (1890), Dir. and Cons. Engr., Société Anonyme Westinghouse, and *for mail*, 6, Place Frédéric-Sauvage, Sainte-Adresse, Le Havre, France.
- SCHMIDT, Charles R. (1895), 200 E. 24th St., Baltimore, Md.
- SCHMIDT, Edward C. (1908), Prof. Ry. Engrg., Univ. of Ill., and *for mail*, 903 W. California Ave., Urbana, Ill.
- SCHMIDT, Ferdinand L. (1912), Mch. Mfr., 150 Eleventh Ave., New York, N. Y.
- SCHMIDT, George G. (Junior, 1913), Asst. Engr., Positive Differential System Co., 132 Nassau St., New York, N. Y.
- SCHMIDT, Wilhelm Armine (1912), Ch. Tool Designer, Remington Typewriter Wks., and *for mail*, 21 Bellevue Ave., Ilion, N. Y.
- SCHNEBLE, Rudolph G. (1897), Cons. Mech. Engr., 1627 E. 3d St., Dayton, O.
- SCHNELLER, Geo. Otto (Associate, 1905), Treas., Ansonia O. & C. Co., Ansonia, Conn.
- SCHNUCK, Edward F. (1897; 1901), Production Engr. and Treas., Jabez Burns & Sons, 600 W. 43d St., New York, N. Y.
- SCHOEN, August (1912), Mech. Engr. Charge Engrg. Dept., Larrowe Constr. Co., and *for mail*, 166 W. Hancock Ave., Detroit, Mich.
- SCHOENBORN, W. E. (1891; 1913), Solicitor of Patents, Expt. in Pat. Causes, McGill Bldg., 908-912 G St., N. W., and 1359 Harvard St., Columbia Hgts., Washington, D. C.
- SCHOENIJAHN, Robert P. (Junior, 1910), M. W. Robinson Co., 31 Ross St., Newark, N. J.
- SCHOEPP, Theodore H. (1913), Genl. Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- SCHOFF, George C. (1894), Rep., Babcock & Wilcox Co., 1010 North Am. Bldg., and 4205 Pine St., Philadelphia, Pa.
- SCHOLEFIELD, Crighton Welch (Junior, 1913), Mech. Engr. Pipe Line Dept., Stand. Oil Co., Rm. 717, 200 Bush St., and *for mail*, 1070 Pine St., Apt. 5, San Francisco, Cal.
- SCHOLL, Julian (1889; 1900), Mech. Engr. and Mfr. Road-Making Mchy., 126 Liberty St., New York, N. Y.
- SCHOOLFIELD, Frank R. (1907), Ch. Draftsman, Ford, Bacon & Davis, New York, and *for mail*, 376 St. John's Pl., Brooklyn, N. Y.
- SCHOTT, Dr. Otto (1912), Cons. Engr. and Tech. Chem., 125 E. 23d St., New York, N. Y.
- SCHUBERT, Arno (Associate-Member, 1913), Ch. Draftsman, The New Britain Mch. Co., and *for mail*, 154 Fairview St., New Britain, Conn.

- SCHUCHART, Dr. Theodor (1913), Mülheim (Ruhr)-Broich, Germany.
- SCHUETZ, Frederick F. (Junior, 1903), Solicitor of Patents and Mech. Engr., Hudson Terminal Bldg., 50 Church St., New York, N. Y., and 65 Hedden Terrace, Newark, N. J.
- SCHUHMANN, George (1884), V. P. and Genl. Mgr., Reading Iron Co., and *for mail*, 1032 Penn St., Reading, Pa.
- SCHULTZ, John L. (1913), Mech. and Designing Engr., Am. Engrg. Co., Aramingo and Cumberland Sts., Philadelphia, Pa.
- SCHULZE-PILLOT, Gerhard (1903), Prof. Mech. Engrg., Royal Tech. Univ., and 8 Taubenweg, Danzig-Langfuhr, Germany.
- SCHUMAKER, John Stauble (Associate, 1905), Ch. Engr. and Mech. Supt., S. D. Warren & Co., and *for mail*, 153 Forest St., Cumberland Mills, Me.
- SCHWAB, Charles M. (1899), Pres., Bethlehem Steel Co., 111 Broadway, and Riverside Drive, New York, N. Y., and South Bethlehem, Pa.
- SCHWAB, Gustav (Junior, 1912), Engr., Am. Gas Furnace Co., and *for mail*, 1156 E. Broad St., Elizabeth, N. J.
- SCHWAMB, Peter (1884), Treas., Theodore Schwamb Co., 1171 Massachusetts Ave., and *for mail*, 33 Academy St., Arlington, Mass.
- SCHWANHAUSSER, William (1888), Ch. Engr., Internatl. Steam Pump Co., 115 Broadway, New York, and *for mail*, 387 Sterling Pl., Brooklyn, N. Y.
- SCHWARTZ, Carl (1906), First Asst. Engr., N. Y. C. & H. R. R. Co., 5048 Grand Central Terminal, New York, and 9 Siwanoy Ave., New Rochelle, N. Y.
- SCHWARTZ, Harry Adolph (1907; 1913), Asst. Supt., The Natl. Malleable Castings Co., and *for mail*, 542 Tibbs Ave., Indianapolis, Ind.
- SCHWARZ, Franz H. (Junior, 1888), Mech. Engr., Lower Pacific Mills, and *for mail*, 167 Ferry St., Lawrence, Mass.
- SCHWEIER, Arthur (Junior, 1913), Asst. Engr., Aluminum Co. of Am., 2402 Oliver Bldg., and 5911 Adler St., Pittsburgh, Pa.
- SCIPIO, Lynn A. (1912), Dean and Prof. Mech. Engrg., Robert College, Constantinople, Turkey.
- SCOLLAN, John Joseph (1910), Genl. Supt., Canada Fdy. Co., Ltd., and 74 Roncesvalles Ave., Toronto, Ont., Canada.
- SCOTT, Dr. Arthur Curtis (1908), Cons. Engr., Pres., Scott Cons. Engrg. Co., 632 Wilson Bldg., and 1420 Sanger Ave., Dallas, Tex.
- SCOTT, Charles Felton (1911), Prof. Elec. Engrg., S. S. S., Yale Univ., and *for mail*, 19 Trumbull St., New Haven, Conn.
- SCOTT, Clarence N. (1902), V. P., Producers Oil Co., and 2117 Milam St., Houston, Tex.
- SCOTT, Earl Francis (1904; 1906), Acting Dist. Mgr., Griscom Russell Co., 115 McKenzie Bldg., and 21 Baltimore Blk., Atlanta, Ga.

- SCOTT, Edgar G. (1913), Supt. of Power and Repair Shops, Ludlow Mfg. Associates, and *for mail*, P. O. Box 886, Ludlow, Mass.
- SCOTT, Geo. H. (1893), Mgr., Union Mch. Co., 98 Union St., and *for mail*, 30 Channing St., Worcester, Mass.
- SCOTT, Henry Francis (1907), M. M., Dennison Mfg. Co., and 71 Union Ave., South Framingham, Mass.
- SCOTT, J. Alvah (1900), Supt., Seattle Constr. & Dry Dock Co., and *for mail*, 3940 Densmore Ave., Seattle, Wash.
- SCOTT, J. W. (1907), Supt., Arbuckle Bros., foot of Jay St., Brooklyn, N. Y., and Van Nostrand Ave., Englewood, N. J.
- SCOTT, James B. (1896; 1900), Cons. Engr., 745-751 Calvert Bldg., and 3422 Auchentoroly Terrace, Baltimore, Md.
- SCOTT, James K. (Junior, 1912), Draftsman, Loco. Superheater Co., New York, and *for mail*, 1629 43d St., Brooklyn, N. Y.
- SCOTT, Richard H. (1913), V. P., Reo Motor Car Co., Lansing, Mich.
- SCOTT, Seaton M. (1896; 1897), Engr., 55 Hawthorne St., Brooklyn, N. Y.
- SCOTT, Walter G. (Junior, 1909), Wheeling Mold & Fdy. Co., and *for mail*, Box 273, Wheeling, W. Va.
- SCRIBNER, Charles W. (1889), Mech. Engr., Park Ave., Plainfield, N. J.
- SCRIVENOR, Arthur (1901), Cons. and Constr. Engr., Scrivenor & Sullivan, Power Bldg., and 1002 West Ave., Richmond, Va.
- SCUDDER, Hewlett, Jr. (Junior, 1899), Pat. Dept., Genl. Elec. Co., Schenectady, N. Y.
- SEABURY, Dwight (1906), Arch. and Engr., 12 East Ave., Pawtucket, and 72 Moore St., Providence, R. I.
- SEAGER, James B. (1908), Genl. Mgr., Seager Eng. Wks., Lansing, Mich.
- SEAMAN, Edwin H. (Junior, 1908), Ins. Engr. with Underwriters at Am. Lloyds, 123 William St., New York, and *for mail*, Lock Box 6, Wantagh, Nassau Co., N. Y.
- SEAMAN, Henry B. (1896), Life Member; Cons. Engr., 165 Broadway, New York, and 30 Sidney Pl., Brooklyn, N. Y.
- SEARCH, Charles Edwin (1906), Genl. Mgr. of Wks., Allis-Chalmers Mfg. Co., West Allis, and *for mail*, 529 Walker St., Milwaukee, Wis.
- SEARLE, Wilbur C. (Junior, 1909), Foreman Miscellaneous Dept., Norton Grinding Co., and *for mail*, 578 Pleasant St., Worcester, Mass.
- SEARS, Frank M. (Associate, 1910), Treas. and Mgr., Holyoke Steam Boiler Wks., Holyoke, Mass.
- SEARS, Willard T. (1889; 1904), Engr. of Mfg. Com., Niles Bement Pond Co. of New York, N. Y., care of Bement Miles Wks., 21st and Callowhill Sts., Philadelphia, Pa.
- SEATON, Roy Andrew (Junior, 1913), Prof. of Applied Mechanics and Hydraulics, Charge of Mech. Drawing and Mch. Design, Kansas State Agrl. College, Manhattan, Kan.
- SEAWELL, Bert W. (1907; 1912), 186 State St., Brooklyn, N. Y.

- SEDERHOLM, E. T. (1889), Asst. Ch. Engr., Nordberg Mfg. Co., and 405 Logan Ave., Milwaukee, Wis.
- SEDGWICK, E. H. (Junior, 1899), Pur. Agt., Brighton Mills, and *for mail*, 122 Franklin Ave., Passaic, N. J.
- SEDGWICK, Edw. V. (1907), Galena-Signal Oil Co., 17 Battery Pl., New York, N. Y.
- SEE, Alonzo B. (1909), A. B. See Elec. Elev. Co., 220 Broadway, New York, and 7 Monroe Pl., Brooklyn, N. Y.
- SEE, James W. (1880), Mech. Engr., Rentschler Bldg., Hamilton, O.
- SEEM, Charles B. (Junior, 1911), Designing Draftsman, Eng. Dept., Bethlehem Steel Co., South Bethlehem, and *for mail*, 419 Elm St., Emans, Lehigh Co., Pa.
- SELIGMAN, Walter (Junior, 1913), Power Plant Wk., 1 William St., New York, N. Y.
- SELLERS, Coleman, Jr. (1882), Manager, 1890-1893; Pres. and Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St., Philadelphia, Pa.
- SELLEW, Welles Hamilton (Junior, 1913), Otis Elev. Co., 26th St. and 11th Ave., and *for mail*, 78 E. 79th St., New York, N. Y.
- SELLEW, William Hamilton (1913), Prin. Asst. Engr., Mich. Central R. R., Detroit, Mich.
- SELSER, Thomas Watson (Junior, 1911), Mech. Engr., Union Tool Co., Torrance, Cal.
- SERBELL, Carl Victor (Junior, 1913), Ch. Engr., Portsmouth Cotton Oil Refining Corp., and *for mail*, Box 147, Portsmouth, Va.
- SERGEANT, Chas. H. (1895), 561 Fordham Rd., New York, N. Y.
- SERRELL, John A. (1895), 71 Murray St., New York, N. Y., and 81 Myrtle Ave., Plainfield, N. J.
- SESSIONS, Edson O. (1911), Cons. Engr., 140 S. Dearborn St., and *for mail*, 5022 Sheridan Rd., Chicago, Ill.
- SESSIONS, Frank Lord (1910), 1423 Cohasset Ave., Cleveland, O.
- SETHMAN, George H. (Junior, 1899), Mech. and Elec. Engr., 250 Equitable Bldg., and *for mail*, 647 Williams St., Denver, Colo.
- SETZ, Hans Rudolph (1912), Ch. Engr., Fulton Iron Wks., St. Louis, Mo.
- SEUBERT, Arthur (Junior, 1913), Instr. Mech. Engrg., Washington Univ., St. Louis, Mo.
- SEWALL, M. W. (1899), Babcock & Wilcox Co., 85 Liberty St., and 600 W. 144th St., New York, N. Y.
- SEWARD, Herbert Lee (Junior, 1912), Instr. Mech. Engrg., S. S. S., Yale Univ., and *for mail*, 84 Mansfield St., New Haven, Conn.
- SEWELL, J. G. Clifton (Junior, 1892), United Engrg. & Fdy. Co., Farmers Bank Bldg., Pittsburgh, and *for mail*, 15 Hawthorne Ave., Crafton, Pa.
- SEYMOUR, Dudley S. (1905), Supt., Union Spec. Mch. Co., 300 W. Kinzie St., Chicago, and *for mail*, 228 N. Elmwood Ave., Oak Park, Ill.

- SEYMOUR, James Alward (1892), V. P. and Ch. Engr., McIntosh & Seymour Corp., 91 Orchard St., and *for mail*, 64 South St., Auburn, N. Y.
- SEYMOUR, Joseph W. (Junior, 1891), Mgr. Boston Office, The C. & G. Cooper Co., 201 Devonshire St., Boston, Mass., and *for mail*, 29 Arnold Ave., Edgewood, R. I.
- SEYMOUR, Niles Edward (Junior, 1912), Instr. Mech. Drawing, East Tech. High Sch., and 1411 E. 111th St., Cleveland, O.
- SHADALL, Charles Edward (1912), Mech. Engr. and Designer, Nordberg Mfg. Co., and *for mail*, 468 Idaho St., Milwaukee, Wis.
- SHAFTER, Ruland R. (Junior, 1912), Estimating and Sales Engr., Traylor Engrg. & Mfg. Co., 30 Church St., and 1240 Simpson St., New York, N. Y.
- SHALLCROSS, Watson Comly (1910), Mgr. Caustic Soda Dept., Solvay Process Co., and 143 Virginia Park, Detroit, Mich.
- SHALLENBERGER, Louis R. (1895; 1902), Civ., Mech. and Irrigation Engr., Kennedy Bldg., Paonia, Delta Co., Colo.
- SHANKLAND, E. C. (1895), Civ. Engr., E. C. & R. M. Shankland, 1106 Rookery Bldg., and 4808 Champlain Ave., Chicago, Ill.
- SHARP, John Thomas, Jr. (Junior, 1910), Supt., Canton Elec. Light & Water Wks., Canton, Miss.
- SHARPE, Henry D. (Associate, 1901), Treas., Brown & Sharpe Mfg. Co., and *for mail*, 87 Prospect St., Providence, R. I.
- SHARPE, Lucian (Associate, 1902), Providence, R. I.
- SHAW, Arthur Derwood (Associate, 1905), 611 W. Upsal St., Germantown, Philadelphia, Pa.
- SHAW, E. C. (1890; 1892), Second V. P. and Wks. Mgr., The B. F. Goodrich Co., and N. Portage Path, Akron, O.
- SHAW, James C. (1909), 21 Savoy, Houston, Tex.
- SHAW, James Groveton (1913), Ch. Inspr., The Travelers Ins. Co., and The Travelers Indemnity Co., 30-42 E. 42d St., New York, and *for mail*, 351 Fourth St., Brooklyn, N. Y.
- SHAW, Joseph D. (1910), Engr. and Contr., The Fountain-Shaw Engrg. Co., Southwestern Life Bldg., and 1911 Ross Ave., Dallas, Tex.
- SHAW, Louis E. (1913), Ch. Engr., Oxyweld Acetylene Co., Newark, and *for mail*, 179 N. Parkway, East Orange, N. J.
- SHAW, William Francis (1913), Ch. Engr. and Genl. Mgr., Am. Rio Grande Land & Irrigation Co., Mercedes, Tex.
- SHEARER, Christopher A. (Junior, 1910), Engr., Nationale Radiator Gesellschaft, Schönebeck-Elbe, Germany, and R. 2, Reading, Pa.
- SHEDD, Frank Edson (1906), V. P. and Ch. Engr., Lockwood, Greene & Co., 60 Federal St., Boston, Mass.
- SHEEDY, Joseph Edward (1912), Genl. Supt., Inter Island Steam Navigation Co., and *for mail*, 2106 Oahu Ave., Honolulu, Hawaii.
- SHELDON, F. P. (1890), Steam, Hyd., Elec. and Mill Engr., F. P. Sheldon & Son, Engrs. and Archs., Industrial Trust Bldg., and 47 Harvard Ave., Providence, R. I.

- SHELDON, Lucian Ambler (1913), Engr., Genl. Elec. Co., and *for mail*, 124 Furman St., Schenectady, N. Y.
- SHELDON, Samuel B. (Junior, 1900), Genl. Supt., Minn. Steel Co., Wolvin Bldg., Duluth, Minn.
- SHELDON, Thos. C. (1884), Secy. and Treas., Fitchburg Duck Mills, and *for mail*, 8 School St., Fitchburg, Mass.
- SHELMIRE, W. H., Jr. (1899), 69th and Launton Ave., Oak Lane, Philadelphia, Pa.
- SHELTON, William Arnold (Junior, 1912), The Goodyear Tire & Rubber Co., and *for mail*, 756 E. Buchtel Ave., Akron, O.
- SHENBERGER, Geo. H. (Junior, 1909), Goulds Mfg. Co., and *for mail*, 197 Fall St., Seneca Falls, N. Y.
- SHEPARD, Frank E. (1899; 1902), Pres. and Mech. Engr., Denver Engrg. Wks., P. O. Box 1802, and 924 Washington St., Denver, Colo.
- SHEPARD, George H. (1903), Emerson Co., 30 Church St., New York, and *for mail*, 414 Delaware Ave., Buffalo, N. Y.
- SHEPARD, Louis A. (1903), Munsey Bldg., Washington, D. C.
- SHEPERDSON, John William (1908; 1911), Asst. Ch. Engr., Cambria Steel Co., Johnstown, and *for mail*, 126 Tloga St., Westmont, Johnstown, Pa.
- SHEPHERD, Wm. G. (1890; 1904), Genl. Mgr., Shepherd Engrg. Co., and *for mail*, Sherman Rd., Williamsport, Pa.
- SHEPPARD, John Leefe, Jr. (Associate, 1906), Constr. Supt., The N. E. Engrg. Co., 31 W. Main St., Waterbury, Conn., and *for mail*, P. O. Box 486, Newark, O.
- SHERBURNE, Kenneth (Junior, 1904), Engr., Automatic Appli-
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- SHERIDAN, Richard B. (1909), Genl. Mgr., The Brown Holsting
Mchy. Co., and 1893 E. 82d St., Cleveland, O.
- SHERMAN, Mason H. (1902), Mgr., By-Products Coke Corp.,
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- SHERMAN, W. D. (1907), Inventor, Cons. Engr., 1447 Mulberry
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- SHERRERD, John Maxwell (1905), Metallurgical Engr., Stroh
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- SHERWOOD, Mather W. (1909), Asst. Mgr. Min. Dept., Chicago
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- SHIEBLER, Marvin (1905; 1909), Cons. Engr., 50 Church St.,
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- SHIELDS, William D. (Junior, 1908), Riter-Conley Mfg. Co.,
Pittsburgh, and *for mail*, Edgeworth, Allegheny Co., Pa.
- SHIPLEY, Albert R. (Associate, 1912), Management Engr., N. E.
Butt Co., 304 Pearl St., and *for mail*, 29 Arch St., Providence,
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- SHIPLEY, Grant B. (Associate, 1907), Pres. and Genl. Mgr.,
Pittsburgh Wood Preserving Co., and Pittsburgh Athletic
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- SHIPLEY, Thos. (1891), V. P. and Genl. Mgr., York Mfg. Co., and Linden and W. York Aves., York, Pa.
- SHIRLEY, Loyd Emmet (1912), Supt., The C. S. Bell Co., Hillsboro, O.
- SHIRLEY, Robert (1906), Wks. Mgr., Chapman Valve Mfg. Co., Indian Orchard, and *for mail*, 37 Dresden St., Springfield, Mass.
- SHIRRELL, David (1890), Am. Loco. Co., and *for mail*, 852 Union St., Schenectady, N. Y.
- SHODRON, John Geo. (Junior, 1908), Cons. Engr. and Arch., 220 Burrell St., Milwaukee, Wis.
- SHOEBRIDGE, Fred Henry (Junior, 1913), Mgr. St. Louis Office, The Alvey-Ferguson Co., 654 Pierce Bldg., St. Louis, Mo.
- SHOUVLIN, Patrick J. (1909), Prop., Superior Gas Eng. Co., and 1134 E. Heigh St., Springfield, O.
- SHRIVER, Harry T. (Junior, 1893), Prop., T. Shriver & Co., Harrison, and *for mail*, Llewellyn Park, West Orange, N. J.
- SHULER, Harvey Albert (Junior, 1913), Dist. Mgr., Kinnear Mfg. Co., 709 Ford Bldg., Detroit, Mich.
- SHULTS, Leo John (Junior, 1913), Mech. Draftsman, McCormick Wks., Internatl. Harvester Co., and *for mail*, 1847 S. Sawyer Ave., Chicago, Ill.
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- SIBLEY, Mark M. (1904; Associate, 1904), Mech. Engr., Wilt Twist Drill Co., Walkerville, Ont., Canada, and *for mail*, 410 Jefferson Ave., Detroit, Mich.
- SIBLEY, Robert (1912), Prof. Mech. Engrg., Univ. of Cal., Berkeley, and Ch. Editor, Journal of Electricity, Power and Gas, 106 Rialto Bldg., San Francisco; also, 2629 Le Conte Ave., Berkeley, Cal.
- SIBSON, Horace E. (Junior, 1904), Mech. Engr., Harrison Safety Boiler Wks., 17th St. and Allegheny Ave., Philadelphia, and *for mail*, P. O. Box 159, Cynwyd, Pa.
- SICKA, Louis Theodore (1912), Mech. Supt., Tooele Plant, Internatl. Smelting & Refining Co., Tooele, Utah.
- SICKLES, Eugene Charles (1896; 1904), Supt. Power Plants, B. & O. R. R., Central Bldg., Baltimore, Md., and *for mail*, New Baltimore, N. Y.
- SIEGEL, Fred Jack (Junior, 1912), Mech. Engr., Conveying Mch. Co., 50 Church St., and *for mail*, 770 Lexington Ave., New York, N. Y.
- SIEVERS, Ernest John Joseph (Junior, 1910), Engr. and Draftsman, Pub. Service Elec. Co., Palisade Ave. and Ferry St., Jersey City, and *for mail*, 65 Willow Ave., Hoboken, N. J.
- da SILVA, Antonio P. (1912), Genl. Foreman of Installation, Engenho de Dentro Shops, Central Ry. of Brazil, Estrada de Ferro Central do Brazil, Rio de Janeiro, Brazil, S. A.

- SIMEON, Charles John (1913), Production Engr., Reed-Prentice Co., Worcester, Mass.
- SIMON, Arthur (1912), Elec. Engr., Cutler-Hammer Mfg. Co., and 3021 McKinley Blvd., Milwaukee, Wis.
- SIMPKINSON, Garrett W. (1912), Member of Firm, Bert L. Baldwin & Co., 73 Perin Bldg., Cincinnati, and Blue Ash, O.
- SIMPSON, Colin Campbell, Jr. (Junior, 1912), Asst. Genl. Supt. Mains and Services, Consld. Gas Co. of N. Y., 4 Irving Pl., New York, and Great Neck Estates, Great Neck, L. I., N. Y.
- SIMPSON, Geo. R. (1889; 1897), Prin. Examiner in Charge Ry. and Rolling Stock Div., 304 U. S. Pat. Office, and Lincoln Apts., Washington, D. C.
- SIMPSON, Robert James Osborne (1906), Supt. and Mech. Engr., L. S. Starrett & Co., and *for mail*, 129 Union St., Athol, Mass.
- SIMPSON, Tracy Whittelsey (Junior, 1912), Supt., Hotpoint Elec. Htg. Co., 1001 W. Washington Blvd., Chicago, and *for mail*, 1903 Livingstone St., Evanston, Ill.
- SIMPSON, William K. (Junior, 1909), Mech. Engr., Nason Mfg. Co., 71 Fulton St., New York, N. Y., and 377 N. Grove St., East Orange, N. J.
- SINCLAIR, Dr. Angus (1883), Editor and Publisher, Angus Sinclair Co., 114 Liberty St., New York, N. Y., and *for mail*, Millburn, N. J.
- SINCLAIR, A. F. (1910; 1911), Milford, Pa.
- SINCLAIR, George M. (1887; 1890), Cons. Engr., 618 Chestnut St., and 1521 Spruce St., Philadelphia, Pa.
- SINGER, Sidney Chas. (Junior, 1909), Supt. of Distribution, Syracuse Ltg. Co., and 100 E. LaFayette Ave., Syracuse, N. Y.
- SINGLETON, Arthur B. (Junior, 1912), Sales Engr., David M. Kerr Mchy. Co., 2317 Dime Bank Bldg., and 25 Hooker Ave., Detroit, Mich.
- SKINKLE, Jay William (1913), Engr. of Methods, West. Elec. Co., Hawthorne Sta., Chicago, and 233 N. East Ave., Oak Park, Ill.
- SKINNER, Allan D. (1913), V. P., Skinner Eng. Co., Erie, Pa.
- SKINNER, Halcyon Nathaniel (Junior, 1913), Mech. Dept., Alex. Smith & Sons Carpet Co., and *for mail*, 152 Hawthorne Ave., Yonkers, N. Y.
- SKINNER, Ramsay (1913), Reeves & Skinner Mchy. Co., and *for mail*, 2638 Tennessee St., St. Louis, Mo.
- SKOGMARK, John (1912), P. O. Box 93, Martins Ferry, O.
- SLADE, Arthur J. (1904), 1414 Times Bldg., 42d St. and Broadway, and 172 E. 72d St., New York, N. Y.
- SLATER, F. R. (Junior, 1894), Genl. Supt., Tex. Power & Light Co., 1320 Commerce St., Dallas, Tex.
- SLAUGHTER, Benjamin Gabriel, Jr. (1911), V. P., The Canadian Copper Co., Copper Cliff, Ont., Canada.
- SLAUSON, Harold W. (Junior, 1908), Mgr. Motor Dept., Leslie's Weekly, 225 Fifth Ave., New York, and Chatterton Parkway and Chase St., White Plains, N. Y.

- SLAWSON, Harry H. (Junior, 1904), 345 Eastern Parkway, Brooklyn, N. Y.
- SLEE, Norman S. (1909; 1913), Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 81 Hillside Rd., El Mora, Elizabeth, N. J.
- SLEFFEL, Charles Conrad (1913), Asst. Prof. Industrial Arts, Teachers College, Columbia Univ., and 195 Claremont Ave., New York, N. Y.
- SLICHTER, Walter I. (1902; 1912), Prof. Elec. Engrg., Columbia Univ., New York, N. Y.
- SLINING, George J. (1909), Supt., Cleveland-Cliffs Iron Co., Gladstone, Mich.
- SLOAN, Ben (Associate-Member, 1913), Salesman, Pratt & Whitney Co., 111 Broadway, New York, and *for mail*, 136 Fort Green Pl., Brooklyn, N. Y.
- SLOANE, Charles O'Connor (Junior, 1910), Sales Mgr., Automatic Weighing Mch. Co., 136 Commerce St., New York, N. Y., and *for mail*, 90 Sterling Ave., Orange, N. J.
- SLOCUM, Chester A. (Junior, 1907), Cons. Engr., Douglas Sprague & Associates, 39 Cortlandt St., New York, N. Y., and 58 Chelsea Ave., Long Branch, N. J.
- SLOMER, Wm. Frederick (1909), Engr. Rep., The Fellows Gear Shaper Co., Springfield, Vt., and *for mail*, 131 Lothrop Ave., Detroit, Mich.
- SLUSS, Alfred Higgins (1913), Asst. Prof. Mech. Engrg., Mech. Lab., Kan. State Univ., and *for mail*, 1122 Ohio St., Lawrence, Kan.
- SLY, Frederick Sanford (Associate, 1913), The American Architect, 50 Union Sq., and 609 W. 115th St., New York, N. Y.
- SMALL, H. J. (1884), Vice-President, 1893-1895; Genl. Supt. M. P., So. Pacific Co., Flood Bldg., and *for mail*, 2430 Broadway St., San Francisco, Cal.
- SMALLWOOD, Julian Chase (1913), Assoc. Prof. Exper. Engrg., Syracuse Univ., and *for mail*, 617 Walnut Ave., Syracuse, N. Y.
- SMART, Richard Addison (1894; 1900; 1906), Canadian Home Land Co., Ltd., Bank of Hamilton Bldg., Hamilton, Ont., Canada, and *for mail*, 1024 N. 12th St., Lafayette, Ind.
- SMEAD, William H. (1906; 1911), Mgr. Htg. and Equip. Dept., The Samuel Austin & Son Co., 6408 Euclid Ave., and 11 Charles Rd., E. C., Cleveland, O.
- SMEALLIE, John Morris (Associate-Member, 1913), Lieut. U. S. N., Navy Yard, Brooklyn, and Amsterdam, N. Y.
- SMITH, Albert Samuel (1911), Supt. of Bldgs. and Power, Mass. Inst. of Tech., Boston, and *for mail*, 32 Oakland St., Winthrop, Mass.
- SMITH, Allen C. (1902), Otis Elev. Co., New York, and *for mail*, 33 Morris St., Yonkers, N. Y.
- SMITH, Alton Lincoln (1904), Prof. Drawing and Mch. Design, Worcester Poly. Inst. and *for mail*, 18 McKinley Rd., Worcester, Mass.
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- SMITH, Augustus (1902), Pres., Bergen Point Iron Wks., foot W. 5th St., Bayonne, N. J.
- SMITH, Cameron C. (1906), Pres. and Genl. Mgr., Union Steel Castings Co., and 719 N. Negley Ave., Pittsburgh, Pa.
- SMITH, Carl D. (Junior, 1909), Engr., U. S. Bureau of Mines, 40th and Butler Sts., Pittsburgh, and 215 Ninth St., Aspinwall, Pa.
- SMITH, Charles P. (Junior, 1888), Worsted Dept., Pacific Mills, Lawrence, and *for mail*, Forest Gate, Methuen, Mass.
- SMITH, Donald Fuller (Junior, 1913), Engr. of Tests, Timken-Detroit Axle Co., Clark Ave., and *for mail*, 1169 Lafayette Blvd., Detroit, Mich.
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- SMITH, Ellis Burton (Junior, 1905), Supt. Toledo Lamp Wks., Genl. Elec. Co., Toledo, O.
- SMITH, Elmer (1913), Genl. Elec. Co., 84 State St., Boston, Mass.
- SMITH, Ernest L. (1901; 1908), West. Rep., R. I. V. Co., 870 Woodward Ave., and 24 Chandler Ave., Detroit, Mich.
- SMITH, Frederick Crocker (1913), Genl. Supt. Port Arthur Refinery, The Tex. Co., Port Arthur, Jefferson Co., Tex.
- SMITH, George H. (1881), Beaman & Smith Co., Gordon and Reynolds Aves., and *for mail*, 33 Mawney St., Providence, R. I.
- SMITH, George Marshall (Associate, 1904), V. P. and Treas., A. E. Anderson & Co., 642 Prudential Bldg., and 360 Crescent Ave., Buffalo, N. Y.
- SMITH, Harold B. (1894), Prof. Elec. Engrg., Dir. Elec. Engrg. Dept., Worcester Poly. Inst., and 20 Trowbridge Rd., Worcester, Mass.
- SMITH, Harry E. (1894; 1903), Assoc. Prof. Mech. Engrg. Agri. and Mech. College of Tex., College Station, Tex.
- SMITH, Harry Ford (1908), Secy. and Genl. Mgr., Smith Gas Power Co., Lexington, O.
- SMITH, Harry J. (1909), Wks. Mgr. and Ch. Engr., Hill Clutch Co., Cleveland, O.
- SMITH, Herbert James (Junior, 1913), Supt., Russell Mfg. Co., and *for mail*, 21 West St., Greenfield, Mass.
- SMITH, Horace Millikin (1913), Supt. Federal Brass Wks. Dept., Liquid Carbonic Co., 3100 S. Kedzie Ave., and 844 E. 52d St., Chicago, Ill.

- SMITH, Howard Wells (Junior, 1892), Ch. Engr., Stand. Eng. Co., and *for mail*, P. O. Box 126, Ellwood City, Pa.
- SMITH, J. Waldo (1896), Ch. Engr., Bd. of Water Supply, Municipal Bldg., and 136 Madison Ave., New York, N. Y.
- SMITH, James Argyle (1913), Genl. Supt., Genl. Elec. Co., and *for mail*, 214 Campbell Ave., Schenectady, N. Y.
- SMITH, James W. (1909), Factory Mgr., Wyman Gordon Co., Worcester, Mass.
- SMITH, Jesse M. (1883), Manager, 1891-1894; Vice-President, 1894-1896, 1899-1901; President, 1909; Life Member; Mech. and Elec. Engr. and Expt. in Pat. Causes, Rm. 1312, 90 West St., and 640 West End Ave., cor 91st St., New York, N. Y.
- SMITH, John Smart (1912), Engr. Oil Dept., S. Pearson & Sons, Ltd., and *for mail*, 47 Parliament St., Westminster, London, S. W., England.
- SMITH, L. P. C. (Junior, 1906), Ch. Draftsman Gas Eng. Dept., Allis-Chalmers Co., and *for mail*, 606 72d Ave., West Allis, Wis.
- SMITH, Mark Elmer (Junior, 1908), Draftsman, Erie City Iron Wks., and *for mail*, 1053 W. 9th St., Erie, Pa.
- SMITH, Oberlin (1881), Manager, 1883-1886; President, 1890; Pres., Ferracute Mch. Co., and Lochwold, Bridgeton, N. J.
- SMITH, Percy Charles (Junior, 1913), Engr. and Genl. Sales Mgr., Roto Co., and *for mail*, 35 Sumner St., Hartford, Conn.
- SMITH, Persifor Frazer, Jr. (1904), Supt. M. P., Pa. Lines, 1036 Ohio Bldg., Toledo, O.
- SMITH, Robert W. (1890), V. P. Hilles & Jones Co., and *for mail*, 1105 Franklin St., Wilmington, Del.
- SMITH, Roy B. (1905; 1912), M. P. Inspr., Pa. Lines West, and *for mail*, 356 14th Ave., Columbus, O.
- SMITH, Roy Harman (Junior, 1906), Supt., Natl. Screw & Tack Co., Cleveland, O.
- SMITH, Sidney L. (1880), Mech. Engr., 90 Elm Hill Ave., Boston, Mass.
- SMITH, T. Carpenter (1886), "Havod," Constant Spring P. O., St. Andrews, Jamaica, West Indies.
- SMITH, William (1911), Genl. M. M., Pa. Steel Co., and 223 Walnut St., Steelton, Pa.
- SMITH, W. W. (1909), Sales Engr., Chas. C. Moore & Co. Engrs., 424 I. N. Van Nuys Bldg., and *for mail*, 460 E. Adams St., Los Angeles, Cal.
- SMITH, William Earhart (Junior, 1908), Draftsman, The Babcock & Wilcox Co., and *for mail*, 421 W. Lake Ave., Barberton, O.
- SMITH, Wm. Edward (1900), Pres., Swedish Portland Cement Mfg. Co., P. O. Box 263, and *for mail*, Strelna, St. Petersburg, Russia.
- SMITH, William H. (1911), 63 Burlingame Ave., Detroit, Mich.
- SMITH, Lieut. William Walker (1912), Lieut. U. S. N., U. S. S. California, Pacific Sta., San Francisco, Cal.
- SNEDDON, James P. (1891), The Babcock & Wilcox Co., and 799 Ave. A, Bayonne, N. J.

- SNODGRASS, John McB. (Junior, 1904), Asst. Prof. Ry. Engrg., Univ. of Ill., Urbana, and 306 Davidson St., Champaign, Ill.
- SNOW, Norman Leslie (Junior, 1910), The Terry Steam Turbine Co., and *for mail*, 234 N. Beacon St., Hartford, Conn.
- SNOW, Sylvester M. (1890), Cons. Engr., 257 Gano St., East Side Sta., Providence, R. I.
- SNOW, Walter B. (1898), Publicity Engr., 170 Summer St., Boston, and 115 Russell Ave., Watertown, Mass.
- SNOW, Wm. Gage (1905), N. E. Mgr., Warren Webster & Co. of Camden, N. J., Rm. 1108, 24 Milk St., Boston, and 11 Devon Rd., Newton Centre, Mass.
- SNYDER, George T. (1912), Mech. Engr. Natl. Wks., Natl. Tube Co., and 1200 Park St., McKeesport, Pa.
- SNYDER, Leo H. (Junior, 1907), Joseph Dixon Crucible Co., and 782 Montgomery St., Jersey City, N. J.
- SNYDER, William E. (1900), Mech. Engr., Am. Steel & Wire Co., Frick Bldg., and *for mail*, 1712 Morrell St., N. S., Pittsburgh, Pa.
- SNYDER, William R. (Junior, 1911), Pur. Agt., Fulton Bag & Cotton Mills, and *for mail*, 714 Highland Ave., Atlanta, Ga.
- SNYPP, Charles Edward (1912), Dist. Engr., The So. Cotton Oil Co., New Orleans, and *for mail*, Gretna, La.
- SOPER, Ellis (1905; Associate, 1908), Pres., The Soper Engrg. Co., 674 Woodward Ave., Detroit, Mich., and *for mail*, 324 James Bldg., Chattanooga, Tenn.
- SORGE, Adolph, Jr. (1886), Mech. Engr., 1537-1539 Monadnock Blk., Chicago, Ill., and St. Joseph, Mich.
- SORNBERGER, Edwin C. (1890), 208 Lancaster Ave., Buffalo, N. Y.
- SORROW, Walter John (1913), Foreman Gage Dept., Winchester Repeating Arms Co., and *for mail*, 80 Pond St., New Haven, Conn.
- SORZANO, Julio Frederico (1884), Life Member; Cons. Civ. and Mech. Engr., Pres., Pan-Am. Chamber of Commerce, 42 Broadway, New York, and *for mail*, 228 Garfield Pl., Brooklyn, N. Y.
- SOUTH, Furman, Jr. (Junior, 1913), Charge Cost Dept., Rlter-Conley Mfg. Co., Leetsdale, and *for mail*, 15 Maple Lane, Edgeworth, Allegheny Co., Pa.
- SOUTHER, Henry (1894), Pres., Henry Souther Engrg. Corp., 11 Laurel St., Hartford, Conn.
- SOUTHWORTH, Martin O. (1907), Elec. Engr., Fairbanks, Morse & Co., 900 S. Wabash Ave., and *for mail*, Hotel Windermere, Chicago, Ill.
- SOVERHILL, Harvey A. (1909), V. P. and Genl. Supt., Root & Van Dervoort Engrg. Co., and V. P., Moline Auto. Co., East Moline, and 623 23d St., Moline, Ill.
- SOWDEN, Parkin T. (Junior, 1908), Mgr., Stand. Silver Co., Ltd., N. Madison Ave., and *for mail*, 176 Walmer Rd., Toronto, Ont., Canada.
- SPACKMAN, Henry S. (1899), Pres., Henry S. Spackman Engrg. Co., 2024 Arch St., Philadelphia, and 105 Ardmore Ave., Ardmore, Montgomery Co., Pa.

- SPALDING, Chester M. (1894), Genl. Elec. Co., and *for mail*, 6 Catherine St., Schenectady, N. Y.
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- SPARROW, John Porterfield (1898), Ch. Engr., N. Y. Edison Co., 55 Duane St., New York, and 279 E. 16th St., Brooklyn, N. Y.
- SPAULDING, Hollon C. (1890), 15 Clark St., Brooklyn, N. Y.
- SPECHT, Victor George (Junior, 1913), Draftsman M. P. Dept., Interborough Rapid Transit Co. and N. Y. Rys. Co., New York, and *for mail*, 216 Willoughby Ave., Brooklyn, N. Y.
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- SPEER, Chas. Henry (Associate, 1907), Ch. Engr., Algoma Steel Corp., and *for mail*, 173 McDougall St., Sault Ste. Marie, Ont., Canada.
- SPENCER, C. G. (1911), Mech. Engr., Toronto Power Co., 12 Adelaide St., E., Toronto, Ont., Canada, and 30 Salem St., Springfield, Mass.
- SPENCER, Frank C. (1908; 1912), Designer, J. L. Clark Mfg. Co., and *for mail*, 633 N. Church St., Rockford, Ill.
- SPENCER, Ira H. (1913), Pres., The Spencer Turbine Cleaner Co., V. P., Organ Power Co., 618 Capitol Ave., and *for mail*, 447 Prospect Ave., Hartford, Conn.
- SPENCER, Robert Lyle (Junior, 1913), Instr. Mech. Engrg., Lehigh Univ., South Bethlehem, Pa.
- SPERRY, Elmer Ambrose (1910), Pres. and Engr., The Sperry Gyroscope Co., Nassau and Jay Sts., and *for mail*, 100 Marlborough Rd., Brooklyn, N. Y.
- SPICE, Charles Gordon (Junior, 1913), Carburetor Development Engr., Detroit Lubricator Co., Trumbull and R. R. Aves., and *for mail*, 123 Delaware Ave., Detroit, Mich.
- SPICER, Clarence Winfred (1913), Pres., Spicer Mfg. Co., and *for mail*, 417 Central Ave., Plainfield, N. J.
- SPIDY, Edgar Thomas (Junior, 1912), Asst. Genl. Foreman, Canadian Pacific Ry., Winnipeg, and *for mail*, Osborn River Apts., Fort Rouge, Winnipeg, Manitoba, Canada.
- SPILLMAN, Harry St. Clair (Junior, 1910), Constr. Engr., Continental Motor Mfg. Co., and *for mail*, 1537 Second Ave., Detroit, Mich.
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- SPOTTON, Arthur Knowlson (Junior, 1906), Ch. Engr., Goldie & McCulloch Co., Ltd., Galt, Ont., Canada.
- SPRADO, Carl G. (1903), Engr. in Charge Gas and Blowing Eng. Dept., Allis-Chalmers Co., and *for mail*, 733 28th St., Milwaukee, Wis.
- SPRADO, Ralph (1900), Ch. Engr., Dow Pump & Diesel Eng. Co., and *for mail*, 911 Grand St., Alameda, Cal.
- SPRAGUE, Benjamin O. (1913), Genl. Mgr., Adeline Sugar Factory Co., Adeline, La.
- SPRAU, William C. (1910; 1913), Treas., Barnes Wire Fence Co., 775 Grand River Ave., and 749 Trumbull Ave., Detroit, Mich.
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- SPRINGER, Russell S. (1913), Secy., The Holt Mfg. Co., Inc., and *for mail*, Yosemite Club, Stockton, Cal.
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- SPURLING, Oliver C. (1907), Asst. Genl. Supt., West. Elec. Co., Hawthorne Sta., Chicago, and 224 S. Ridgeland Ave., Oak Park, Ill.
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- STACY, Elmer Neill (1912), Genl. Mgr., Decarie Incinerator Co., McKnight Bldg., and 3216 Hennepin Ave., Minneapolis, Minn.
- STAFFORD, Benjamin E. D. (Junior, 1895), Genl. Mgr., Flannery Bolt Co., Vanadium Bldg., and 4335 Schenley Farms Terrace, Pittsburgh, Pa.
- STANBROUGH, Duncan G. (Associate, 1907), Asst. Shop Supt., U. S. Navy Yard, and 39 St. Riverview, Norfolk, Va.
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- STANDLEY, Albert H. (Junior, 1899), V. P. and Genl. Supt., Downington Mfg. Co., and *for mail*, Box 3, also 336 E. Lancaster Ave., East Downington, Pa.
- STANFORD, J. Verne (1911), Prof. Mech. Engrg., Univ. of Pa., Engrg. Bldg., and 5121 Chestnut St., Philadelphia, Pa.
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- STANWOOD, J. B. (1889), Manager, 1897-1900; Engr. and V. P., Houston, Stanwood & Gamble Co., and *for mail*, 623 Oak St., Cincinnati, O.
- STAPLES, H. A. (Junior, 1903), Bridgeport Brass Co., and *for mail*, 1052 Laurel Ave., Bridgeport, Conn.
- STARBUCK, George F. (Junior, 1901), Draftsman, Boston Elev. Ry., Boston, and *for mail*, Waltham, Mass.
- STARKWEATHER, Wm. G. (1897), N. E. Mgr., C. H. Wheeler Mfg. Co., and A. L. Ide & Sons, 53 State St., Boston, and 17 Gibson Rd., Newtonville, Mass.
- STARR, Frederick W. (1912), Asst. Mgr. Sales, Pope Mfg. Co., Westfield, Mass.
- STARR, John Edwin (1905), Pres., Starr Engrg Co., 90 West St., and 12 Fifth Ave., New York, N. Y.
- STAUDE, Edwin G. (Junior, 1908), Pres. and Managing Dir., E. G. Staude Mfg. Co., 2675 W. University Ave., St. Paul, and *for mail*, 1839 Kenwood Parkway, Minneapolis, Minn.
- STEARNS, Albert (1880), Supt., Church & Dwight Co., 36 Ash St., and *for mail*, 601 Leonard St., Sta. G, Brooklyn, N. Y.
- STEARNS, Thomas B. (1883), Vice-President, 1911-1913; Min. and Mech. Engr., 1720 California St., and 1218 Washington Ave., Denver, Colo.
- STEBBINS, Albert C. (1904), V. P., Niles-Bement-Pond Co., and 835 W. 7th St., Plainfield, N. J.
- STEBBINS, Theodore (1903), 27 W. 67th St., New York, N. Y.
- STECHEER, Charles Edouard (1913), Asst. Mech. Engr., The Pearson Engrg. Corp., Ltd., 115 Broadway, New York, N. Y.
- STEDMAN, James Edington (1912), Engr., Bd. of Supvg. Engrs., Chicago Traction, 105 S. La Salle St., and 935 Greenwood Terrace, Chicago, Ill.
- STEEL, Reginald Armstrong (Junior, 1912), Estimator and Draftsman, McDougall & Potter Co., and *for mail*, 558 W. 162d St., New York, N. Y.
- STEELE, Ben Wadley (Junior, 1907), Genl. Mgr., Atlanta & St. Andrews Bay Ry., Dothan, Ala.
- STEELE, Walter D. (1892; 1901), V. P., Benjamin Elec. Mfg. Co., 120-128 S. Sangamon St., Chicago, Ill.
- STEEN, Arthur B. (1903), Hope, Ark.
- STEENSTRUP, P. S. (1906), Pres., Pacific Motor Supply Co., 220 W. Main St., and *for mail*, 109 Geneva Ave., Medford, Ore.
- STEHLIN, Joseph (Associate, 1905), Pres., Farmers Feed Co. of N. Y., 532 E. 76th St., New York, and Long Beach, L. I., N. Y.
- STEINMETZ, Charles P. (1907), Cons. Engr., Genl. Elec. Co., and Prof. Elec. Engrg., Union Univ., and *for mail*, Wendall Ave., Schenectady, N. Y.

- STENBOL, Carl (Associate-Member, 1913), Smelter Engr., Canadian Copper Co., and *for mail*, Box 287 Copper Cliff, Ont., Canada.
- STEPHENS, Phinehas V. (1910), Cons. Engr., 796 E. 175th St., New York, N. Y.
- STEPHENSON, Hermann (Junior, 1909), Brighton Mills, Passaic, N. J.
- STERNER, Edward J. (Junior, 1913), Engr., Berwind White Coal Min. Co., Box 374, Windber, and 405 Pawnee St., South Bethlehem, Pa.
- STETSON, George R. (1880), Vice-President, 1898-1900; Pres. of Bd. of Dirs., New Bedford Gas & Edison Light Co., 121 Middle St., and 7 Anthony St., New Bedford, Mass.
- STEVENS, Alfred H. (1898; 1903), Engr. and Contr., 149 Broadway, New York, and *for mail*, 400 Ninth St., Brooklyn, N. Y.
- STEVENS, Burt Dwight (1912), Mech. Engr. Charge Designing Dept. and Pat. Matters, Miehle Ptg. Press & Mfg. Co., 14th and Robey Sts., Chicago, Ill.
- STEVENS, E. A. (Associate, 1889), Life Associate; Pres., Hoboken Land & Improvement Co., 1 Newark St., Hoboken, and Rd. Comr., State of N. J., State House, Trenton; also, Bernardsville, N. J.
- STEVENS, Harold L. (Associate, 1904), Dist. Sales Mgr., Lackawanna Steel Co., 40 Central St., Boston, Mass.
- STEVENS, Jesse F. (Associate, 1904), 14 Prospect Ave., Wollaston, Mass.
- STEVENS, John A. (1902), Cons. Engr., 107 Merrimack St., and 78 Hanks St., Lowell, Mass.
- STEVENS, R. C. (1890; 1906), Ch. Engr., Skinner Eng. Co., and *for mail*, 454 W. 11th St., Erie, Pa.
- STEVENS, Robert H. (1903; 1912), Stevens Bros., 149 Broadway, New York, N. Y.
- STEVENS, Sidney (1910), V. P., Ludlow Mfg. Associates, Ludlow, Mass.
- STEVENS, Wm. N. (Junior, 1886), Stevens-Aylsworth Co., 90 West St., New York, and 243 Brooklyn Ave., Brooklyn, N. Y.
- STEVENSON, A. A. (1888), V. P., Stand. Steel Wks. Co., 1104 Morris Bldg., Philadelphia, and 201 Kent Rd., Ardmore, Pa.
- STEVENSON, Louis T. (Junior, 1907), Engr., Mountain Mill Paper Co., Lee, and *for mail*, 28 Reed St., Pittsfield, Mass.
- STEVENSON, T. Kennedy (Junior, 1908), Ch. Engr., Duplex Metals Co., 30 Church St., New York, and 41 Sidney Pl., Brooklyn, N. Y.
- STEVENSON, William Alston (1900), Mgr., Keystone Drop Forge Wks., Chester, Pa.
- STEWART, George Henry (1912), Charge of Designing and Supt. Constr. of Mchs., L. & J. A. Stewart, and *for mail*, 74 Park St., Rutland, Vt.
- STEWART, Charles Alexander (Junior, 1912), Engr. Lamp Wks., Genl. Elec. Co., Harrison, N. J., and *for mail*, 841 Lincoln Pl., Brooklyn, N. Y.

- STEWART, Chas. E. (Junior, 1908), Cons. Engr., Gasolene Engrs., Head Dept. Auto. Instr., Franklin Union, Berkeley St., Boston, and *for mail*, Tufts College, Mass.
- STEWART, Harry Morton (Junior, 1913), Mchy. Rep., The Samuel C. Tatum Co., Colerain and Monmouth Aves., and *for mail*, 225 Bosley St., Cincinnati, O.
- STEWART, Reid T. (1894), Prof. Mech. Engrg., Univ. of Pittsburgh, and 1524 Shady Ave., Pittsburgh, Pa.
- STICKNEY, Charles A. (1913), Pres., Charles A. Stickney Co., St. Paul, Minn.
- STIEFEL, Ralph C. (1897), Mech. Engr., Ellwood City, Lawrence Co., Pa.
- STILL, Frederick R. (1909), Ch. Engr. and Secy., Am. Blower Co., and 1400 Russell St., Detroit, Mich.
- STILLMAN, Austin Frank (1907; 1912), V. P. and Secy., Watson Stillman Co., Aldene, and *for mail*, 45 Park Ave., Elizabeth, N. J.
- STILLMAN, Edwin A. (Junior, 1908), Pres., Watson-Stillman Co., 50 Church St., New York, N. Y., and Aldene, N. J.
- STILLMAN, Howard (1895), Mech. Engr. and Engr. of Tests, So. Pacific Co., 1180 Flood Bldg., San Francisco, and S. W. cor. Piedmont Ave. and Haste St., Berkeley, Cal.
- STILLMAN, Thomas Bliss, Jr. (Junior, 1913), Apprentice Engr., The Babcock & Wilcox Co., Bayonne, and *for mail*, 532 River St., Hoboken, N. J.
- STIRLING, Allan (1880), Manager, 1881-1884; Vice-President, 1885-1887; Life Member; Drexel Bldg., Philadelphia, and Pleasant Mt., Wayne Co., Pa.
- STIX, Lawrence Cullman (Junior, 1911), Ch. Engr., Twinvolute Pump Co., Green Island, Albany Co., and 495 West End Ave., New York, N. Y.
- STOCKWELL, Rupert Kennedy (1910; 1912), Ch. Engr., Braden Copper Co., Rancagua, Chile, S. A., and care of Dr. W. G. B. Terrell, Salt Lake City, Utah.
- STODDARD, Elgin (1911), V. P. and Genl. Mgr., Chas. C. Moore & Co. Engrs., 40 First St., San Francisco, and 144 Bonita Ave., Piedmont P. O., Oakland, Cal.
- STODDARD, Elliott J. (1909), Expt., R. A. Parker, Pat. Lawyer, 607 Moffat Blk., and 86 Ferris Ave., cor John R. St., Detroit, Mich.
- STODDARD, Geo. Howland (1897), Treas. and Mgr., Quincy Market Cold Storage & Warehouse Co., 133 Commercial St., and 197 Beacon St., Boston, Mass.
- STOKOE, James (1910), Mgr., Panama Branch, Union Oil Co. of Cal., Balboa, Canal Zone.
- STOLLWERCK, Dr. Walter L. (1912), Dernburgstr. 48, Charlottenburg, Germany.
- STONE, Charles Waterman (1907), Cons. Engr., Genl. Elec. Co., and 18 State St., Schenectady, N. Y.
- STONE, Edison H. (Junior, 1912), Draftsman, The Lunkenheimer Co., and *for mail*, 2429 Fairview Ave., Cincinnati, O.

- STONE, Elmer B. (Junior, 1906), Wks. Mgr., Corbin Cabinet Lock Co., and 3 Trinity St., Britain, Conn.
- STONE, J. Wheaton (1898), Treas. and Mgr., The East. Mchy. Co., and 326 Fountain St., New Haven, Conn.
- STONE, Mason A., Jr. (Junior, 1907), Ralph D. Mershon, Cons. Engr., and *for mail*, The Yale Club, 30 W. 44th St., New York, N. Y.
- STONE, Thos. W. (Junior, 1903), Engr., West. Gas Constr. Co., and 919 Columbia Ave., Fort Wayne, Ind.
- STORER, Norman Wilson (1912), Genl. Engr., Westinghouse Elec. & Mfg. Co., and *for mail*, 6109 Howe St., Pittsburgh, Pa.
- STOTT, Henry G. (1902), Manager, 1907-1910, 1911-1912; Vice-President, 1912-1914; Supt. M. P., I. R. T. Co., and N. Y. R. R. Co., 600 W. 59th St., New York, and Rochelle Heights, New Rochelle, N. Y.
- STOUGHTON, Bradley (1911), Secy., Am. Inst. of Min. Engrs., Cons. Engr., 29 W. 39th St., New York, N. Y., and New Canaan, Conn.
- STOUT, R. Paul (1906), Engr. of Ordnance, Bethlehem Steel Co., South Bethlehem, and *for mail*, 404 Market St., Bethlehem, Pa.
- STOVEL, Russell W. (1902; 1907), Managing Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and 48 Watchung Ave., Montclair, N. J.
- STOWELL, Byron F. (1913), M. M., The Hendee Mfg. Co., and *for mail*, 79 Dawes St., Springfield, Mass.
- STRATTON, E. Platt (1883), Engr. and Naval Arch., Supvr., Am. Bureau of Shipping, and Am. Lloyds, Cons. Engr., Surveyor to N. Y. Board of Underwriters, 66 Beaver St., New York, and Ninth Ave. and 13th St., College Point, Borough of Queens, N. Y.
- STRATTON, Harry F. (Junior, 1904), Genl. Mgr. and Ch. Engr., The Elec. Controller & Mfg. Co., Cleveland, O.
- STRATTON, James Hughes (1906), Engr. of Constr., Wellman-Seaver-Morgan Co., E. 70th St. and Central Ave., and 1871 E. 81st St., Cleveland, O.
- STRATTON, Samuel Wesley (1913), Dir. Natl. Bureau of Standards, Dept. of Commerce, and The Farragut, Washington, D. C.
- STRAUB, Albert A. (Junior, 1911), Steam Engr., Duquesne Light Co., and *for mail*, 301 Elysian St., Pittsburgh, Pa.
- STRAUB, C. Lee (1911), 106 High St., Perth Amboy, N. J.
- STRAUB, Theodore Alfred (1913), V. P. and Genl. Mgr., Fort Pitt Bridge Wks., 510 House Bldg., Smithfield and Water Sts., Pittsburgh, Pa.
- STRAUS, William Rayner (Junior, 1913), Asst. Supt., Rolling Mill, Baltimore Copper Wks., and *for mail*, 1812 Eutaw Pl., Baltimore, Md.
- STRAUSS, Julian B. (1910), Partner, Sachs, Strauss & Co., Bulletin Place 2, Sydney, Australia.
- STRAW, Chas. A. (1896; 1904), Supt., N. Y. & N. E. Cement & Lime Co., and 1 Willard Pl., Hudson, N. Y.

- STREET, Clement F. (1893), V. P., Loco. Stoker Co., 30 Church St., and 445 Riverside Drive, New York, N. Y.
- STREET, Edgar L. (1903), Cons. Engr., 43 Cedar St., New York, N. Y., and Princeton, N. J.
- STREETER, Lafayette P. (1902; Associate, 1903), Air Brake Engr., Ill. Central R. R., and *for mail*, P. O. Box 69, Chicago, Ill.
- STREETER, Robert Leroy (1907; 1913), Asst. Prof. Mech. Engrg., Rensselaer Poly. Inst., Troy, N. Y.
- STRIETER, Martin Ernst (Junior, 1911), Secy. and Treas., Horst & Strieter Co., 1417-1423 Second Ave., Rock Island, Ill.
- STRING, Joseph Starr (Junior, 1907), Supt. Constr., Isbell Porter Co., Bridge and Ogden Sts., Newark, and *for mail*, 130 Arlington Ave., East Orange, N. J.
- STRINGHAM, Joseph S. (1903), Mgr., Monarch Steel Castings Co., 800 Union Trust Bldg., and 275 Seminole Ave., Detroit, Mich.
- STROBEL, Victor O. (1892), Genl. Mgr. Crane Dept., Niles-Bement-Pond Co., Mifflin and Meadow Sts., and 1537 Pine St., Philadelphia, Pa.
- STROM, Carl A. (1905), Mgr., Am. Loco. Co., Pittsburgh, Pa.
- STRONG, Albert William (Associate, 1913), Pres. and Mgr., The Strong-Scott Mfg. Co., 413 S. 3d St., Minneapolis, Minn.
- STRONG, Frank L. (1912), Dealer in Am. Mchy. and Supplies, 105 Escolta, Manila, P. I.
- STROTHMAN, Louis E. (1909), Mgr. and Ch. Engr. Pumping Eng. Dept., Allis-Chalmers Mfg. Co., and 835 Summit Ave., Milwaukee, Wis.
- STROUD, Edwin G. (Junior, 1901), Mgr., Cleveland Engrg. Agency, Pres., E. G. Stroud Co., Rose Bldg., Cleveland, and 1502 Orchard Grove Ave., Lakewood, O.
- STROUSE, Sidney B. (Junior, 1909), Engr. and Member of Firm, Pa. Engrg. Co., 1119-1121 N. Howard St., and *for mail*, 3523 N. 21st St., Philadelphia, Pa.
- STRUCKMANN, Edwin (1913), Supt., Ia. Portland Cement Co., Des Moines, Ia.
- STRUCKMANN, Holger (1909), Ch. Engr. and Genl. Mgr., The Iola Portland Cement Co., 815 Commerce Bldg., and 1618 Linwood Blvd., Kansas City, Mo.
- STUART, Milton Caleb (Junior, 1912), Asst. Steam Engr., Cambria Steel Co., and *for mail*, 216 Venango St., Johnstown, Pa.
- STUART, Percy Rankin (1911), Pacific Coast Mgr., The Roebeling Constr. Co., 623-626 Crocker Building, San Francisco, and *for mail*, 702 Lerida Ave., Oakland, Cal.
- STUBBLEBINE, Winfred A. (1911), Engr., The Lehigh Fdy. Co., Fullerton, Pa.
- STUCKI, Arnold (1907), Engr., Oliver Bldg., and *for mail*, 1615 Falk Ave., N. S., Pittsburgh, Pa.
- STULTS, William Ralph (Junior, 1913), Draftsman, Chase Turbine Mfg. Co., and *for mail*, 73 Ball St., Orange, Mass.

- STUMPF, Johann (1896), Privy Councillor and Prof., Tech. Hochschule, Charlottenburg, and Kurfürstendamm, 33, Berlin, W., Germany.
- STUNTZ, J. E. (Junior, 1903), Supt., Cape Cruz Co., Ensenada de Mora, Cuba.
- STURGESS, John (1901), Secy. and N. E. Mgr., The Platt Iron Wks. Co., 94 Pearl St., and 1900 Beacon St., Boston, Mass.
- STURGIS, Raynor Francis (Junior, 1912), Cost Accountant, Corn Products Refining Co., 17 Battery Pl., New York, N. Y., and *for mail*, 54 Early St., Morristown, N. J.
- STURGIS, Wm. Bayard (Junior, 1909), Post Graduate Student in Chem., Johns Hopkins Univ., Box 548, and *for mail*, 416 W. Hoffman St., Baltimore, Md.
- STURKEN, Carl Albert (Junior, 1913), Asst. Engr., Arbuckle Bros. Sugar Refinery, and *for mail*, 1075 E. 14th St., Brooklyn, N. Y.
- STUT, J. C. H. (1892), Cons. Mech. Engr., 417 Montgomery St., San Francisco, and *for mail*, 735 Adeline St., Oakland, Cal.
- STUTZ, C. C. (1900), Cons. Engr., 3830 Forest Ave., Norwood, O.
- SUCK, Adolph (1905), Arch. and Engr., 94 Arlington St., Hyde Park, Mass.
- SULLIVAN, Howard W. (Junior, 1908), Secy. and Treas., Union Drydock & Repair Co., Weehawken, N. J., and 623 Bedford Ave., Brooklyn, N. Y.
- SULZER, Jacob Carl (1891), Sulzer Bros., Winterthur, Switzerland.
- SUMMEY, David Long (1907), 169 Buckingham St., Waterbury, Conn.
- SUMNER, Eliot (1910), M. M., Pa. R. R., and *for mail*, King St., Northumberland, Pa.
- SUMNER, Henry W. (1900; 1912), 2951 First Ave., S., and 702 Boren Ave., Seattle, Wash.
- SUNSTROM, Karl J. (1884), Cons. Engr., Odengaten 92, Stockholm, Sweden.
- SUPLEE, Henry Harrison (1888), Manager, 1897-1900; 203 W. 81st St., New York, N. Y.
- SUPPES, Max M. (1890), The Natl. Tube Co., Lorain, O.
- SUTER, George A. (1883; 1893), Pres., G. A. Suter & Co., 112 Wooster St., and *for mail*, 190 Riverside Drive, New York, N. Y.
- SUTHERLAND, James I. (Junior, 1909), Estimator, Stand. Steel Car Co., and *for mail*, 559 Third St., Butler, Pa.
- SUTTON, Frank (1907), Cons. Engr., 80 Broadway, New York, and Babylon, L. I., N. Y.
- SUTTON, George Ziegler (Associate, 1913), Asst. Treas. and Asst. Secy., Stokes & Smith Co., Summerdale Sta., Philadelphia, Pa.
- SUVERKROP, Edward Albert (1913), Assoc. Editor, American Machinist, 505 Pearl St., New York, N. Y.
- SVENSEN, Carl Lars (Junior, 1911), 166 Main St., Medford, Mass.

- SVENSON, John A. F. (1888), Mech. Engr., Oliver Bldg., Pitts-
burgh, Pa.
- SVENSSON, Johan Alfred (1909), Mech. Engr., Ingle Mch. Co.,
375 St. Paul St., and *for mail*, 87 S. Union St., Rochester, N. Y.
- SWAIN, George F. (1883), Cons. Engr., Chairman Boston Tran-
sit Com., Cons. Engr., Mass. R. R. Com., Prof. Civ. Engrg.,
Graduate Sch. Applied Science, Harvard Univ., Pierce Hall,
Oxford St., and 435 Marlboro St., Cambridge, Mass.
- SWAN, John Joseph (1899; 1909), The Oil Power Engrg. Corp.,
New York, N. Y., and *for mail*, 1208 Watchung Ave., Plain-
field, N. J.
- SWANBERG, F. L. (Junior, 1902), Secy., D. T. Williams Valve
Co., and 2033 Francis Lane, Cincinnati, O.
- SWARTS, Guy Taylor (Junior, 1909), Repair Wk. Open Hearth
Dept., Cambria Steel Co., and *for mail*, 822 Second Ave.,
Johnstown, Pa.
- SWARTWOUT, Everett W. (1910; Associate-Member, 1913), Mgr.
Chicago Office, Nordberg Mfg. Co., 1504 Fisher Bldg., Chi-
cago, Ill.
- SWASEY, Ambrose (1880), Vice-President, 1900-1902; President,
1904; Pres., The Warner & Swasey Co., and 7808 Euclid Ave.,
Cleveland, O.
- SWEENEY, John M. (1885), Mech. Engr., 1636 Monadnock Bldg.,
Chicago, Ill., and *for mail*, 1207 W. 3d St., Los Angeles, Cal.
- SWEET, Charles E. (1907), Treas., Superior Mch. & Engrg. Co.,
51-53 Fort St., E., and *for mail*, 135 Taylor Ave., Detroit,
Mich.
- SWEET, Ernest E. (1911), Cons. Mech. Engr. and Ch. Engr.,
Cadillac Motor Car Co., and *for mail*, 195 Chandler Ave., De-
troit, Mich.
- SWEET, Franklin (1903; 1913), 285 Farwell Ave., Milwaukee,
Wis.
- SWEET, John E. (1880; Honorary, 1904), Manager, 1882-1883;
President, 1884; Pres., Straight Line Eng. Co., and 114 Mer-
riam Ave., Syracuse, N. Y.
- SWEETSER, William Jordan (1913), Asst. Prof. Mech. Engrg.,
Case Sch. of Applied Science, Cleveland, O.
- SWENSON, Bernard Victor (1903), Barron G. Collier, Inc., 175
Fifth Ave., and Engineers Club, 32 W. 40th St., New York,
N. Y.
- SWIGGETT, Clayton Andrew (Junior, 1912), Mech. Engr. and
Asst. Supt., Iola Portland Cement Co., and *for mail*, 423 South
St., Iola, Kan.
- SWINTON, David Russell (Junior, 1913), Mech. Engr., Tuthill
Spring Co., 754 Polk St., Chicago, Ill.
- SWITZER, John Albert (1912), Prof. Hyd. Engrg., Univ. of
Tenn., and Hyd. Engr., Tenn. State Geological Survey,
Knoxville, Tenn.
- SWOPE, Bruce Milton (Junior, 1913), M. P. Inspr., Conemaugh
Div., Pa. R. R., Verona, and *for mail*, Oakmont, Allegheny
Co., Pa.
- SYMONDS, George P. (1908), Constr. Engr., Alberger Pump &
Condenser Co., 140 Cedar St., New York, N. Y.

- SYMONDS, Nathaniel Gardiner (Junior, 1905), Sales Mgr. Chicago Dist., The Westinghouse Mch. Co., 1406 N. Y. Life Bldg., Chicago, Ill.
- SYMONS, Johnson V. (1913), M. M., Blast Furnaces and Mills, Cambria Dept., Cambria Steel Co., Johnstown, and 311 Tioga St., Westmont, Johnstown, Pa.
- SYMONS, Wilson E. (1899), 900 Postal Telegraph Bldg., Chicago, Ill.
- SZE, S. C. Thomas (Junior, 1905), Asst. Genl. Mgr., Kailan Min. Administration, Tientsin, North China, and Race Course Rd., Tientsin, China.
- SZYMANSKI, Casimir Emil (1913), Ch. Draftsman, So. Pacific Co.'s Shops, and *for mail*, 914 22d St., Sacramento, Cal.
- TABER, George H. (1894), Genl. Mgr., Gulf Refining Co., Frick Bldg. Annex, Pittsburgh, and 136 W. Swissvale Ave., Edgewood, Pittsburgh, Pa.
- TABER, Melbert William (1912), Constr. Engr., Packard Motor Car Co., and 105 Waverly Ave., Detroit, Mich.
- TABER, William Brewster, Jr. (Junior, 1913), Cadet Engr., United Gas Improvement Co., Broad and Arch Sts., Philadelphia, and *for mail*, 8407 Ardleigh St., Chestnut Hill, Philadelphia, Pa.
- TABOR, Leroy (1909), The Tabor Mfg. Co., 18th and Hamilton Sts., and *for mail*, 2513 S. Garnet St., Philadelphia, Pa.
- TADDIKEN, J. F., Jr. (Junior, 1907), Engr., Am. Beet Sugar Co., Chino, Cal.
- TAFT, Theodore Howard (1903; 1910), Asst. Prof. Mech. Engrg., Mass. Inst. of Tech., Boston, and 1 Avon Pl., Cambridge, Mass.
- TAGGE, Arthur C. (1901), Genl. Supt., Canada Cement Co., Ltd., Montreal, and 440 Strathcona Ave., Westmount, Que., Canada.
- TAIT, Edward Henry (1913), Supt., Phoenix Portland Cement Co., Nazareth, and *for mail*, 501 Paxinosa Ave., Easton, Pa.
- TAIT, Godfrey M. S. (1906; 1907), Cons. Engr., 1413 G St., N. W., res., 2016 O St., N. W., Washington, D. C.
- TAIT, Roderick H. (1904), Pres., Tait-Nordmeyer Engrg. Co., 1114 Internatl. Life Bldg., and 1368 Granville Pl., St. Louis, Mo.
- TAKEO, Toshisuke (1908), Cons. Engr., Takeuchi Min. Co., Genl. Mgr., Karatsu Iron Wks., Nishi-Karatsu, Hizen, Japan.
- TALBOT, Clifford (1912), Supt., Am. Motors Co., Indianapolis, Ind., and *for mail*, 44 Third St., Ilion, N. Y.
- TALBOT, Harry John (Associate-Member, 1913), Sales and Mech. Engr., The Interstate Mch. Co., and *for mail*, P. O. Box 740, New London, Conn.
- TALBOT, James Martin (Junior, 1913), Foreman, S. S. White Dental Mfg. Co., Prince Bay, S. I., and New Dorp, N. Y.
- TALLMADGE, Webster (1911; Associate-Member, 1913), Engr., Westinghouse Mch. Co., 165 Broadway, New York, and *for mail*, 1312 54th St., Brooklyn, N. Y.

- TALLMAN, Frank G. (1881), Manager, 1905-1908; Dir. of Purchases, E. I. du Pont de Nemours Powder Co., du Pont Bldg., and 1102 Broome St., Wilmington, Del.
- TARBOX, George Roger (1912), Engr., Stanley G. Flagg & Co., Stowe, and *for mail*, 121 N. Hanover St., Pottstown, Pa.
- TATE, John M., Jr. (Associate, 1907), Pres., Tate, Jones & Co., Inc., 1007 Empire Bldg., Pittsburgh, and Sewickley, Pa.
- TAYLOR, Alexander (1907), Mgr. of Wks., Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- TAYLOR, Cecil Hamelin (Associate, 1908), Cons. Engr., Taylor & Neuteboom, 518-520 Broadway Central Bldg., Detroit, Mich.
- TAYLOR, Clarence L. (1904), Ch. Engr., Morgan Engrg. Co., and *for mail*, 653 S. Union Ave., Alliance, O.
- TAYLOR, Donald F. (Junior, 1913), Commercial Engr., The Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 123 N. Negley Ave., Pittsburgh, Pa.
- TAYLOR, Frank H. (1908), Dir. and Genl. Mgr., Linotype Mchy., Ltd., 188 Fleet St., London, England, and *for mail*, 44 E. 82d St., New York, N. Y.
- TAYLOR, Frederick W. (1886), Vice-President, 1904-1905; President, 1906; Cons. Engr., Highland Sta., Chestnut Hill, Philadelphia, Pa.
- TAYLOR, George W. K. (1907), 104-106 John St., New York, N. Y.
- TAYLOR, Harvey Birchard (1910; 1913), Hyd. Engr., I. P. Morris Co., Beach and Ball Sts., Philadelphia, and 6718 Quincy St., Germantown, Philadelphia, Pa.
- TAYLOR, J. Hall (1912), Secy. and Genl. Mgr., Am. Spiral Pipe Wks., P. O. Box 485, Chicago, and 405 N. Euclid Ave., Oak Park, Ill.
- TAYLOR, John T. (1891), Supt., 156 Fifth Ave., New York, N. Y.
- TAYLOR, John Wallace (1909; 1910), Production Engr. and Asst. Supt., Curtis & Co. Mfg. Co., and *for mail*, 832A N. Kingshighway, St. Louis, Mo.
- TAYLOR, Lyndon Bigelow (1912), Engrg. Bldg., Univ. of Pa., Philadelphia, Pa.
- TAYLOR, Percy B. (1909), Cons. Engr., Essex Bldg., and 57 S. 11th St., Newark, N. J.
- TAYLOR, Stevenson (1886), Vice-President, 1899-1901; V. P. Quintard Iron Wks. Co., 742 E. 12th St., New York, N. Y.
- TAYLOR, Stevenson Peirce (Junior, 1913), Engrg. Salesman, Alberger Pump & Condenser Co., 140 Cedar St., and *for mail*, 123 W. 85th St., New York, N. Y.
- TAYLOR, Warren H. (1889), Supt. Bank Lock Dept., Yale & Towne Mfg. Co., and *for mail*, Ripawam Pl., Stamford, Conn.
- TAYLOR, Wm. M. (1888; 1904), Pres., Chandler & Taylor Co., S. Addison St., and 2426 E. Washington St., Indianapolis, Ind.
- TAYLOR, William T. (1913), Cons. Engr., Bank of Chile, Santiago, Chile, S. A., and *for mail*, 92 Gannow Lane, Burnley, Lancashire, England.

- TAYLOR, Wyatt W. (Associate, 1908), Asst. Engr., Am. Can Co., 447 W. 14th St., New York, and *for mail*, Spuyten Duyvil, N. Y.
- TEACH, Jacob Arthur (1912), Checker and Designer, Minneapolis Steel & Mchy. Co., Minneapolis, and *for mail*, 1265 Laurel Ave., St. Paul, Minn.
- TEAGUE, Walter Owen (1912), Engr. and Inspr., Associated Factory Mutual Fire Ins. Cos., 31 Milk St., Boston, Mass.
- TEELE, Fred W. (1904), Pres. and Genl. Mgr., Porto Rico Ry., Light & Power Co., San Juan, P. R.
- TEETER, Ralph R. (Junior, 1913), Engrg. Dept., Light Inspec. Car Co., Hagerstown, Ind.
- TEN BROECK, Floyd G. (1903), Cons. Engr., Fifth Ave. Bldg., 200 Fifth Ave., New York, and 1421 Glenwood Rd., Brooklyn, N. Y.
- TENNEY, Albert Ball (1896; 1904), V. P., Charles H. Tenney & Co., 201 Devonshire St., Boston, and Lexington, Mass.
- TENNEY, Edward Henry (1912), Asst. to Ch. Engr. of Power Plants, Union Elec. Light & Power Co., 12th and Locust Sts., and *for mail*, 1418 Goodfellow Ave., St. Louis, Mo.
- TENNEY, Theodore Smith (1910), Nygren, Tenney & Ohmes, 101 Park Ave., New York, N. Y., and Riveredge, N. J.
- TERRELL, Cary D. (Junior, 1901), Sales Agt., Am. Car & Fdy. Co., 915 Olive St., St. Louis, Mo.
- TERRY, Charles D. (1902; 1908), Asst. to Genl. Supt., Natl. Tube Co., 1706 Frick Bldg., Pittsburgh, and *for mail*, 1123 South Ave., Wilkinsburg, Pa.
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- VAUGHAN, John Alfred (1902), Ch. Insp. Mch., Box 1132, Johannesburg, Transvaal, S. A.
- VEAL, C. B. (1907; 1912), Prof. Mch. Design, Purdue Univ., Lafayette, and *for mail*, 633 Russell St., West Lafayette, Ind.
- VEEDER, Curtis H. (1888; 1897), Pres., Veeder Mfg. Co., 28 Sargeant St., Hartford, Conn.
- VEHSLAGE, Harold Edwin (Junior, 1912), Mech. Engr., Am. Cotton Oil Co., and *for mail*, 104 W. 70th St., New York, N. Y.
- VEIT, Richard C. (1891), Secy., Stand. Oil Co. of N. Y., 26 Broadway, and 171 W. 71st St., New York, N. Y.
- VEITCH, Thomas (Junior, 1901), Cons. Auto. Engr., 72 Trinity Pl., and 523 W. 151st St., New York, N. Y.
- VENESS, Alfred E. (1911), Mgr., Hanna Engrg. Wks., 2059 Elston Ave., Chicago, and *for mail*, Warwick Ave., Kenilworth, Ill.
- VENNUM, George Carl (1913), Asst. Ch. Engr. of Power Plants, Union Elec. Light & Power Co., 12th and Locust Sts., and 5652 Etzel Ave., St. Louis, Mo.
- de VERASTEGUI, Albert (1889), Mgr. Export Dept., Babcock & Wilcox Co., 85 Liberty St., New York, and Dobbs Ferry, N. Y.
- VERNER, William Franklyn (1912; 1913), Asst. Prof. Mech. Engrg., Univ. of Mich., and *for mail*, 908 Lincoln Ave., Ann Arbor, Mich.
- VERNON, Percy Venables (1906), Engr. and Dir., Alfred Herbert, Ltd., Coventry, and *for mail*, Penvorn, Manor Rd., Coventry, England.
- VIALI, Ethan (1912), West. Editor, American Machinist, 3556 Montlieth Ave., Hyde Park, Cincinnati, O.

- VIALI, William A. (Associate, 1902), Secy., Brown & Sharpe Mfg. Co., Providence, R. I.
- VICK, Augustas Theodore (1911), Elec. and Mech. Engr., Overland, St. Louis Co., Mo.
- VICKESS, Samuel (1901), Cons. Engr., 129 Front St., and 151 W. 70th St., New York, N. Y.
- VICTOREEN, Ernest Vitalis (1910), Supt. Shops, Tenn. Coal, Iron & R. R. Co., Ensley, and *for mail*, 2233 Arlington Ave., Birmingham, Ala.
- VIDETO, Theodore N. (Junior, 1912), Vergennes, Vt.
- VIETS, Harry Augustus (Associate, 1913), Ch. Draftsman, The Autopress Co., and *for mail*, 151 High St., College Point, L. I., N. Y.
- VINCENT, Arthur S. (Associate, 1908), Cons. Engr. and Supt., Belnord Apts., 86th St. and Broadway, New York, N. Y.
- VINCENT, Gilbert Irving (1913), Engr., Des Moines Gas Co., and *for mail*, 412 Seventh St., Des Moines, Ia.
- VINCENT, Jesse Gurney (1908; 1910), Ch. Engr., Packard Motor Car Co., East Grand Blvd., and 69 Massachusetts Ave., Detroit, Mich.
- VIOLA, Bartholomew (1901), Cons. Engr., 140 Liberty St., New York, and 191 Bay 17th St., Brooklyn, N. Y.
- VOGT, Robert Friedrich (1911), Mech. Engr. Cons. Engrg. Dept., Allis-Chalmers Mfg. Co., and *for mail*, 233 Queen Anne Pl., Milwaukee, Wis.
- VOIGHT, Henry Gustave (1908), Asst. Genl. Supt., Russell & Erwin Mfg. Co., and *for mail*, P. O. Box 406, New Britain, Conn.
- von AMMON, Siegfried (1904; 1905), Fontella, Va.
- von BAYER, August H. (1912), Supt., Ky. Solvay Coke Co., Ashland, Ky.
- von GOEBEN, Carl (1899), 37 Gates Ave., Montclair, N. J.
- von MILLER, Dr. ing. Oskar (Honorary, 1912), Reichsrat, Ferdinand Millerplatz 3, Munich, Germany.
- von OSWALD, William (1899), Privy Councillor of Commerce, Bergassessor a D., Carl Spaeter, Rheinzollstrasse 6, and Rheinanlagen 9, Coblenz, Germany.
- von PEIN, Edward J. (1913), Inventor and Designer, Natl. Cash Register Co., and R. R. 8, Dayton, O.
- von PHILP, C. (1890), Mgr. Mchy. Dept., Bethlehem Steel Co., South Bethlehem, and Bethlehem, Pa.
- Von PHUL, Gilbert D. (1912), Contr. Mech. Engr., Sugar and Genl. Mchy., 322 Hibernia Bank Bldg., New Orleans, La.
- von PHUL, William (1907), Member of Firm, Ford, Bacon & Davis, 921 Canal St., and *for mail*, 496 Audubon St., New Orleans, La.
- VOORHEES, Gardner Tufts (1900), Refrig. Engr., Engrs' Club, 32 W. 40th St., New York, N. Y.
- VOSBURY, W. DeWitt (1911), Mech. Engr., P. O. Bldg., Darby, and *for mail*, Sharon Hill, Pa.
- VOSE, Clarence (1891), Bellport, L. I., and Brooklyn, N. Y.

- VOSE, Fred Hale (1906; 1910), Assoc. Prof. Mech. Engrg. in Charge of Dept., Case Sch. of Applied Science, and *for mail*, 9912 Newton Ave., Cleveland, O.
- WACHS, Theodore (Junior, 1911), Wks. Mgr. Plant No. 2, Chicago Pneu. Tool Co., and The Wyn-Hof Apts., Franklin, Pa.
- WADDELL, Charles E. (1903; 1907), Cons. Engr., 78 Patton Ave., Asheville, N. C.
- WADDELL, George F. (Associate, 1898), Genl. Mgr., Ohio Copper Co., Newhouse Bldg., P. O. Box 1167, Salt Lake City, Utah.
- WADDELL, Joseph Addison, Jr. (1913), Genl. Supt., Spencer Heater Co., 1540 Albright Ave., and *for mail*, 1650 Monsey Ave., Scranton, Pa.
- WADIA, Ardeshir D. (1912), Advisory Engr., Prin., A. D. Wadia & Co., Ahmedabad and Bombay, and Managing Prop., Imperial Iron Wks., Ahmedabad, Outside Raipur Gate, and *for mail*, care of A. D. Wadia & Co., Ahmedabad, India.
- WADLEIGH, George R. (1907), Ch. Engr., Bemis Bros. Bag Co., 601 S. 4th St., St. Louis, and 32 Maple Ave., Webster Groves, Mo.
- WADSWORTH, Frank L. O. (1903), Cons. Engr., and Pres., Miller Non-Corrosive Metal Co., 1347-1348 Oliver Bldg., 1801-1802 Commonwealth Blvd., and Duquesne Club, Pittsburgh, Pa.
- WADSWORTH, George Reed (1910), Engrg. Mgr., Gray & Davis, Inc., Boston, and 37 Philbrick Rd., Brookline, Mass.
- WADSWORTH, R. Hollis (1912), Asst. Supt., The Ptg. Mchy. Co., 3d and Lock Sts., Cincinnati, and Box 96, Rossmyrne, O.
- WAERN, A. W. (1908), Cons. Engr., Jos. H. Wallace & Co., Temple Court Bldg., New York, N. Y.
- WAGNER, Emilio F. (1891), Engr., Coca 76, Lima, Peru, S. A.
- WAGNER, Frank C. (1895), Prof. Mech. and Elec. Engrg., Rose Poly. Inst., and *for mail*, 1111 S. 6th St., Terre Haute, Ind.
- WAGNER, Frederick Henry (1913), Ch. Engr., The Bartlett Hayward Co., and *for mail*, 1429 Madison Ave., Baltimore, Md.
- WAINWRIGHT, Lucius M. (1907), Pres., Diamond Chain & Mfg. Co., 241 W. Georgia St., and 1851 N. Penna St., Indianapolis, Ind.
- WAIT, Henry H. (1905), Cons. Mech. and Elec. Engr., Rm. 1201, 30 N. La Salle St., and 5321 Cornell Ave., Chicago, Ill.
- WAIT, J. Russell (1913), Mgr., Charleston Ore Co., and *for mail*, 131 Rutledge Ave., Charleston, S. C.
- WAITE, Edward B. (Associate, 1902), Dean, Am. Sch. of Corr., 58th St. and Drexel Ave., and 9854 Charles St., Chicago, Ill.
- WAITT, Arthur M. (1893), Vice-President, 1900-1902; Pres., Stand. Third Rail Co., Cons. Engr., Rm. 1417, 165 Broadway, New York, N. Y., and Landheim, Sharon, Conn.
- WALDECK, Louis Edwin (Junior, 1913), Mfr. of Paper Boxes, 31 Oakland Ave., Jersey City, N. J.
- WALDEN, Albert E. (Associate-Member, 1913), Supt. and Ch. Engr., Baltimore Co. Water & Elec. Co., 100 W. Fayette St., and 508 N. Luzerne St., Baltimore, Md.

- WALDO, Leonard (1894), Cons. Engr., 802 Atlantic Bldg., 49 Wall St., New York, N. Y., and *for mail*, 640 W. 8th St., Plainfield, N. J.
- WALDRON, Frederick A. (1890; 1896), Industrial Engr., Rm. 2200, 37 Wall St., New York, N. Y., and 808 Hillside Ave., Plainfield, N. J.
- WALES, Chas. M. (1890), Agt., Otis Steel Co., Titusville Forge Co., 11 Broadway, and 410 Riverside Drive, New York, N. Y.
- WALKER, Charles Albert (Junior, 1912), Teaching Mech. Engrg., London Co. Council Sch. of Engrg. and Navigation, High St., Poplar, E., and 53 Whittington Rd., Bowes Park, N., London, England.
- WALKER, Emery Lafayette (1910), Hale & Kilbourn, 18th St. and Lehigh Ave., Philadelphia, Pa.
- WALKER, Frank A. (Junior, 1909), Engr., B. B. & R. Knight, 314 Dyer St., and 107 Ring St., Providence, R. I.
- WALKER, Frederick Wiley (1898; 1909), V. P. and Ch. Engr., Comstock, Haigh, Walker Co., Wayne Co. Bank Bldg., Detroit, Mich., and *for mail*, Cedarburg, Ozaukee Co., Wis.
- WALKER, Gilbert S. (1904), Asst. Inspec. Engr., Isthmian Canal Com., 24 State St., New York, N. Y.
- WALKER, Perley F. (1908), Dean Sch. of Engrg., Prof. Mech. Engrg., Univ. of Kan., and *for mail*, 1301 Ohio St., Lawrence, Kan.
- WALKER, Sidney G. (1907), Engr., Mfrs.' Mut. Fire Ins. Co., 815 Grosvenor Bldg., and 50 Montague St., Providence, R. I.
- WALKER, Thomas C. (1891), Pres., Walker Mfg. Co., 2156 15th St., Denver, Colo.
- WALL, Geo. L. (1897; 1904), V. P., Lima Loco. Corp., and *for mail*, 1103 W. High St., Lima, O.
- WALL, William Guy (1907), V. P. and Ch. Engr., Natl. Motor Vehicle Co., and 2233 Park Ave., Indianapolis, Ind.
- WALLACE, David A. (1892; 1904), Mech. Engr., West. Elec. Co., Hawthorne Sta., Chicago, and *for mail*, 647 N. Oak Park Ave., Oak Park, Ill.
- WALLACE, Erwin Van Doren (Junior, 1911), Arch. and Engr., 4236 Shaw Ave., St. Louis, Mo.
- WALLACE, Jacob H. (Associate, 1908), Mech. Engr., J. P. Karns Tunneling Mch. Co., Mercantile Trust and Bank Co. Bldg., and *for mail*, 1313 Seventh St., Boulder, Colo.
- WALLACE, Joseph H. (1897; 1901), Industrial Engr., Temple Court Bldg., New York, and 3 Thomas Pl., New Rochelle, N. Y.
- WALLACE, Lawrence Wilkerson (1912), Assoc. Prof. Car and Loco. Design, Purdue Univ., Lafayette, and *for mail*, 629 Russell St., West Lafayette, Ind.
- WALLACE, Ross S. (1904), V. P. and Genl. Mgr., Central Illinois Light Co., 316 S. Jefferson Ave., and 216 North St., Peoria, Ill.
- WALLER, Carl Richard (1913), Ch. Engr., De Laval Steam Turbine Co., and *for mail*, 493 Chambers St., Trenton, N. J.

- WALLICHS, Adolph O. (1908), Prof. Tech. Hochschule, and *for mail*, Nizza-Allee, 65, Aachen, Germany.
- WALLIS, James T. (1901), Genl. Supt. M. P., Pa. R. R. Lines East of Pittsburgh, Altoona, Pa.
- WALLIS, Philip (1886), Hotel Roanoke, Roanoke, Va.
- WALMSLEY, W. N. (1907), Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd., Sao Paulo, Brazil, S. A.
- WALSH, Edward T. (1913), Constr. Engr. with Frederick A. Waldron, 39 Wall St., New York, N. Y., and *for mail*, 73 Sandford Ave., Plainfield, N. J.
- WALSH, James F. (1913), Mech. Expt., 2024 Monument Ave., Richmond, Va.
- WALSH, Thomas J. (Junior, 1906), E. H. Rollins & Sons, 43 Exch. Pl., New York, N. Y., and *for mail*, 97 Howard Ave., Ansonia, Conn.
- WALTON, Albert (Associate, 1911), Factory Economist and Mfg. Acct., Franklin Bldg., 133 S. 12th St., Philadelphia, and *for mail*, 6601 N. 7th St., Oak Lane, Philadelphia, Pa.
- WALTON, Marshall Rhodes (Junior, 1913), Wks. Engr., Pa. Salt Mfg. Co., Natrona, Pa.
- WALWORTH, Arthur C. (1886), Manager, 1894-1897; Pres., Malleable Iron Fittings Co. of Branford, Conn., 100 Pearl St., Boston, and 931 Centre St., Newton Centre, Mass.
- WARD, Charles (1892), Cons. Engr., Charles Ward Engrg. Wks., and *for mail*, 1416 Kanawha St., Charleston, W. Va.
- WARD, Charles E. (1900), Pres. and Genl. Mgr., Charles Ward Engrg. Wks., and 213 Morris St., Charleston, W. Va.
- WARDER, Walter J., Jr. (1911), Wks. Mgr., Crocker-Wheeler Co., Ampere, N. J.
- WARG, Robert (1903), Natl. Blower Wks., 17th St. and St. Paul Ave., and 319 Farwell Ave., Milwaukee, Wis.
- WARING, Edward Hileman (1913), Mech. Engr., Crocker-Wheeler Co., Ampere, and *for mail*, 325 Washington St., Glen Ridge, N. J.
- WARMAN, William A. (1908), Supt. and Designer, Keller Mech. Engraving Co., 70 Washington St., Brooklyn, N. Y.
- WARNER, Charles Lewis (1913), Pres., Treas. and Genl. Mgr., The Baird Mch. Co., Bridgeport, Conn.
- WARNER, Irving (Junior, 1912), Plant Mgr., Charles Warner Co., Wilmington, Del.
- WARNER, Raymond Curtis (Associate-Member, 1913), Dist. Mgr., Green Engrg. Co., 2545-2546 Oliver Bldg., and Pittsburgh Athletic Asso., Pittsburgh, Pa.
- WARNER, Robert L. (1889), Warner, Tucker & Co., 85 Devonshire St., Boston, and Elm St., Concord, Mass.
- WARNER, Worcester R. (1880), Manager, 1890-1893; President, 1897; V. P., Warner & Swasey Co., Cleveland O., and Singer Bldg., 149 Broadway, New York; also, Wilson Park, Tarrytown, N. Y.
- WARREN, Aldred Kennedy (1912), Mfg. Engr., Genl. Elec. Co., West Lynn, and *for mail*, 1 Burrill St., Swampscott, Mass.

- WARREN, Ambrose Gilmore (1907), Beverly, N. J.
- WARREN, George Sessions (1912), Ch. Engr., Sharon Steel Hoop Co., and *for mail*, 2 Euclid Ave., Sharon, Pa.
- WARREN, John E. (1886), Agt., Pulp and Paper Mills, and 159 Cumberland St., Cumberland Mills, Westbrook, Me.
- WARREN, Kenneth L. (1907), Cons. Engr., Fraserville, Que., Canada.
- WARREN, Ralph Herbert (1913), Economy Engr., Alpha Portland Cement Co., Easton, Pa.
- WARREN, Walter B. (Associate 1901), V. P., Warren Bros. Co., 711 Journal Bldg., and 1133 Thurman St., Portland, Ore.
- WARRINER, Samuel D. (1893), Pres., The Lehigh Coal & Navigation Co., 437 Chestnut St., and 1833 Pine St., Philadelphia, Pa.
- WARRINGTON, James N. (1884; 1885), 2001 La France Ave., South Pasadena, Cal.
- WARRINGTON, Jesse (1887), 271 N. Randolph St., Indianapolis, Ind.
- WARTENWEILER, Otto (1913), Mgr., Otto Wartenweiler & Co., Engrs., 1133 Van Nuys Bldg., Los Angeles, Cal.
- WASHBURN, William S. (1891), 1363 Main St., Campello Sta., Brockton, Mass.
- WASHINGTON, Dixon E. (1910), Genl. Mgr. and Ch. Engr., Packers Architectural & Engrg. Co., 1209 Manhattan Bldg., Chicago, Ill., and *for mail*, 23 Rue de Rocroy, Paris, and Chateau, France.
- WASHINGTON, William De Hertburn (1913), 39-41 W. 32d St., New York, N. Y.
- WATERMAN, Fred Walter (1912), Mech. Engr., The Natl. Tube Co., Lorain, and *for mail*, 116 E. Broad St., Elyria, O.
- WATERS, George H. (1901), Pres., Geo. H. Waters Co., 2929 Richmond Terrace, Mariner Harbor, S. I., and 345 Bement Ave., West New Brighton, S. I., N. Y.
- WATERS, William L. (1909), Designing Engr., Westinghouse Elec. & Mfg. Co., Pittsburgh, Pa.
- WATKINS, Frank Elias (1911), The Canadian Fairbanks-Morse Co., Ltd., 1379 W. Bloor St., Toronto, Ont., Canada.
- WATSON, Frank (Junior, 1893), Lexington, Mass.
- WATSON, Henry D. (1897; 1900), East. Sales Mgr., Internatl. Motor Co., 1770 Broadway, New York, and 136 E. 19th St., Flatbush, Brooklyn, N. Y.
- WATSON, Herbert L. (Junior, 1907), Sales Mgr., De Laval Steam Turbine Co., Trenton, N. J.
- WATSON, Hubert Leigh (Junior, 1913), Instr. Mch. Design, Purdue Univ., Lafayette, and *for mail*, 111 University St., West Lafayette, Ind.
- WATSON, Wm. (1886), Secy., Am. Academy of Arts and Sciences, 107 Marlborough St., Boston, Mass.
- WATTLES, Joseph Warren 3d (Junior, 1910), Commer. Engr. Sales Dept., Edison Elec. Ill. Co., 39 Boylston St., Boston, Mass.

- WATTS, George W. (1903; 1904), Wks. Mgr., Canadian Genl. Elec. Co., 212 King St., and *for mail*, 1 Beaumont Rd., Toronto, Ont., Canada.
- WAUGH, Orlo Lovejoy (Junior, 1912), Mech. Engr., Collins Bakery, Clinton and Adams St., and 45 W. Mohawk St., Buffalo, N. Y.
- WEAGER, Theodore Alfred (Junior, 1912), Sales Engr., Carrier Air Conditioning Co., 39 Cortlandt St., New York, N. Y.
- WEAR, Burt C. (Junior, 1905), Youngstown Sheet & Tube Co., and *for mail*, 272 Arlington St., Youngstown, O.
- WEBBER, Henry (1886), Mech. Engr., Finch Mfg. Co., Scranton, and *for mail*, 125 Harper St., Dunmore, Pa.
- WEBBER, Sam'l S. (1880), Manager, 1902-1905; Ch. Engr., Am. Steel & Wire Co., and *for mail*, 153 Greenwood Ave., Trenton, N. J.
- WEBER, Erwin L. F. (Junior, 1910), Engr., Design of Elec., Mech. and Sanitary Equip. of Bldgs., 723-724 Northern Bank Bldg., and 1212 E. Harrison St., Seattle, Wash.
- WEBER, Geo. A. (Associate, 1896), 71 Courtland Ave., Stamford, Conn.
- WEBER, Herman Frederick (Junior, 1908), Engr., Interstate Elec. Corp., 115 Broadway, and *for mail*, 815 E. 169th St., New York, N. Y.
- WEBER, O. L. E. (1895; 1905), Mgr., Mich. Sulphite Fibre Co., Port Huron, Mich.
- WEBER, Peter (1913), Pres., Sloan & Chace Mfg. Co., 6th Ave. and 13th St., Newark, N. J.
- WEBSTER, Fred L. (1912), Mgr. Cal. Dist. Sales Offices, Allis-Chalmers Mfg. Co., Rialto Bldg., San Francisco, Cal.
- WEBSTER, Hosea (1883), Dist. Sales Mgr., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 174 S. Mountain Ave., Montclair, N. J.
- WEBSTER, Lawrence Burns (Junior, 1910), Efficiency Engr., Am. Gas & Elec. Co., 30 Church St., New York, N. Y., and *for mail*, Box 625, Marion, Ind.
- WEBSTER, Warren (Associate, 1903), Pres., Warren Webster & Co., Point and Pearl Sts., and 626 Cooper St., Camden, N. J.
- WEBSTER, William R. (1889), Cons. and Inspc. Engr., 411 Walnut St., Philadelphia, Pa.
- WEBSTER, William Ralph (1911), Asst. Ch. Draftsman, Cambria Steel Co., Johnstown, and *for mail*, 44 Erie St., Westmont, Johnstown, Pa.
- WEBSTER, William Reuben (1893; 1907), Second V. P. and Genl. Supt., Bridgeport Brass Co., and *for mail*, 208 Brooklawn Ave., Bridgeport, Conn.
- WEEKS, Charles H. (1892), V. P., Buckeye Eng. Co., and 138 Franklin Ave., Salem, O.
- WEEKS, Paul (1905; 1911), Mech. Engr., 1011 Hollingsworth Bldg., 6th and Hill Sts., Los Angeles, Cal.
- WEGG, David S., Jr. (Junior, 1909), Telluride Asso., Ithaca, N. Y., and 16 E. Ontario St., Chicago, Ill.

- WEHNER, Lewis (1901; 1907), Engr., Pawling & Harnischfeger Co., 38th St. and National Ave., and *for mail*, University Club, Milwaukee, Wis.
- WEICHERT, Arnold E. (1907), 54 Cleveland Terrace, Bloomfield, N. J.
- WEICK, Charles William (1901), Asst. Prof. in Industrial Arts, Teachers College, Columbia Univ., and 507 W. 124th St., New York, N. Y.
- WEICKEL, Henry (1889), Ch. Engr., Pawling & Harnischfeger Co., 38th and National Ave., and *for mail* 369½ 16th Ave., Milwaukee, Wis.
- WEIDENBACKER, Robert W. (Junior, 1912), Examiner, The Baldwin Loco. Wks., 500 N. Broad St., Philadelphia, and *for mail*, Haverford, Pa.
- WEIDNER, Paul G. (1912), Ludlow Mfg. Associates, and *for mail*, P. O. Box 74, Ludlow, Mass.
- WEIMER, Hugo W. (Junior, 1910), Engr. Min. and Smelting Sales Dept., Power & Min. Mch. Co., Cudahy, and *for mail*, 559 Wentworth Ave., Milwaukee, Wis.
- WEINBERG, Semen G. (1901; 1907), Min. Engr., Mgr., Worthington Pump Co., Ltd., and *for mail*, P. O. Box 65, St. Petersburg, Russia.
- WEINSHANK, Theodore (1906), Mgr., Warren Webster & Co., 821 Hume Mansur Bldg., and 2341 N. Delaware St., Indianapolis, Ind.
- WEINTZ, Louis John (Junior, 1912), Mech. Engr., Am. Mfg. Co., and *for mail*, 155 Chestnut St., Brooklyn, N. Y.
- WEISS, Carl William (1912), Mietz & Weiss, New York, and *for mail*, 933 E. 12th St., Brooklyn, N. Y.
- WEISS, Louis T. (Junior, 1913), Mech. Engr., 1224 Ave. I, Brooklyn, N. Y.
- WEISSBLATT, Murray E. (Junior, 1907), Crocker-Wheeler Co., 30 Church St., and 272 Manhattan Ave., New York, N. Y.
- WELCH, Leon Cowles (1913), Supt. Cygnet Div., The Buckeye Pipe Line Co., 609 Rockefeller Bldg., Cleveland, O.
- WELD, Alfred O. (1913), Mech. Engr., George A. Weld Co., 79 Milk St., Boston, and *for mail*, 285 Washington St., Winchester, Mass.
- WELLINGTON, J. W. (1912), Mgr., Maxwell Motor Co., Inc., and 7 Indiana Ave., Newcastle, Ind.
- WELLMAN, Samuel T. (1881), Manager, 1885-1888; Vice-President, 1896-1898; President, 1901; Life Member; Chairman, Wellman-Seaver-Morgan Co., and *for mail*, 8803 Euclid Ave., Cleveland, O.
- WELLS, Albert Edward (1912), Prof. Mch. Constr. and Supt. of Shops, Sibley College, Cornell Univ., Ithaca, N. Y.
- WELLS, Edward C. (1904), The Platt Iron Wks. Co., and *for mail*, 40 W. Great Miami Blvd., Dayton, O.
- WELLS, Frank O. (1903), Pres., Wells Bros. Co., and *for mail*, Box 334, Greenfield, Mass.
- WELLS, Frederick Latimer (1892), 101 S. Clinton St., Chicago, Ill.

- WELLS, G. A. (1905), Installation Engr., Autocar Co., and *for mail*, 435 W. 19th St., New York, N. Y.
- WELLS, J. Barnard (Junior, 1909), Office Mgr., R. B. Guernsey & Co., 436 Rialto Bldg., San Francisco, and *for mail*, 44 Oak Vale Ave., Berkeley, Cal.
- WELLS, J. Leland (1885), Cons. Engr., 245 W. 34th St., New York, and *for mail*, Amityville, L. I., N. Y.
- WELLS, James Hollis (1904), Member of Firm, Clinton & Russell, 32 Nassau St., New York, N. Y.
- WELLS, Robert G. (1909), Genl. Mgr., The Tata Iron & Steel Co., Ltd., Sakchi, via Kalimati, B. N. Ry., India, and care of Mrs. David Underhill, East Aurora, N. Y.
- WENDELL, Henning Gabriel (1912), Ch. Engr., Asbestos Protected Metal Co., and *for mail*, P. O. Box 415, Beaver Falls, Pa.
- WENDLE, George Edward (1913), Asst. Genl. Mgr., Charge Tech. Depts., Lycoming Edison & Williamsport Passenger Ry. Cos., P. O. Box 424, Willow and West Sts., Williamsport, Pa.
- WENDT, Henry William (1912), Secy. and Treas., Buffalo Forge Co., 490 Broadway, and 633 Lafayette Ave., Buffalo, N. Y.
- WENTWORTH, Reginald Andrew (1911; 1913), Engr. with H. L. Gantt, 2915 Singer Bldg., New York, N. Y., and *for mail*, 127 Fort Hill Ave., Lowell, Mass.
- WERNER, J. Edward (1913), 71 N. 3d St., Bangor, Pa.
- WERST, Charles Wm. (1909), Supt., Lima Loco. Corp., and *for mail*, 1534 Lakewood Ave., Lima, O.
- WESCOTT, William Patton (1910), Managing Dir., Galena-Signal Oil Co., Ltd., Broadway Court, Broadway, Westminster, London, S. W., England.
- WESSELHOEFT, Charles Dietrich (1913), Pres., Wesselhoeft Co., 358 W. Madison St., Chicago, Ill.
- WESSINGER, Henry J. (1897), Pres., Imperial Iron Wks., and *for mail*, 1111 London Rd., Duluth, Minn.
- WESSON, Paul Bancroft (1912), Mech. Supt., Wright Wire Co., and *for mail*, 46 Pine St., Palmer, Mass.
- WEST, Arthur (1902), Vice-President, 1907-1909; Mgr. Power Dept., Bethlehem Steel Co., South Bethlehem, and cor. Church and Centre Sts., Bethlehem, Pa.
- WEST, Thos. D. (1884), Iron Fdy. Expt., Chairman and Managing Dir., The West Steel Casting Co., E. 70th St., and *for mail*, 10,511 Pasadena Ave., N. E., Cleveland, O.
- WEST, Walter Carr (Junior, 1912), Mech. Expt., Galena-Signal Oil Co., 410 Traction Bldg., Indianapolis, Ind.
- WESTCOTT, Arthur Lord (1913), Asst. Prof. Mech. Engrg., Univ. of Mo., and 1402 Windsor St., Columbia, Mo.
- WESTCOTT, Henry P. (1913), Engr. Natural Gas Constr. Wk., Metric Metal Wks., Erie, Pa.
- WESTCOTT, Valorus Stukely (1910), Mech. Supt., J. & P. Coats, Inc., and *for mail*, 644 Main St., Pawtucket, R. I.

- WESTERFIELD, George Sumner (Junior, 1903), So. Mgr., and Dist. Mgr., Hooven, Owens, Rentschler Co., Warren Webster & Co., 323 Chronicle Bldg., Houston Tex., and 326 Hennen Bldg., New Orleans, La.; also, cor. Milan and McGregor Sts., Houston, Tex.
- WESTINGHOUSE, George (Honorary, 1897), President, 1910; Pittsburgh, Pa.
- WESTINGHOUSE, H. Herman (1884), Manager, 1889-1892; Vice-President, 1904-1906; Life Member; V. P., Westinghouse Air Brake Co., 165 Broadway, New York, N. Y.
- WESTLAKE, Charles Thomas (1910), Ch. Mech. Engr., Commonwealth Steel Co., 1629 Pierce Bldg., St. Louis, Mo.
- WESTLIN, Carl Torsten (1913), Mech. Engr., Otis Elev. Co., New York, N. Y., and *for mail*, 501 Devon St., Arlington, N. J.
- WESTON, Edward (1882), Pres., Weston Elec. Instrument Co., Waverly Park, Newark, and North Ave., Elizabeth, N. J.
- WESTON, Frederick Willoughby (Associate, 1907), Rep., Baldwin Loco. Wks., Stand. Steel Wks. Co., 50 Church St., and 26 W. 48th St., New York, N. Y.
- WETMORE, Charles P. (1901), Genl. Supt., Dial Cash Register Co., 409-415 Third St., and *for mail*, 518 Astor St., Milwaukee, Wis.
- WEYMOUTH, C. R. (1904; 1907), Ch. Engr., Chas. C. Moore & Co. Engrs., 99 First St., San Francisco, and 2733 Ashby Ave., Berkeley, Cal.
- WEYMOUTH, Thomas Rote (1910), Ch. Engr., United Natural Gas Co., 206 Seneca St., and 117 W. 3d St., Oil City, Pa.
- WHEATLEY, George Steele (Junior, 1913), Instr. Mech. Engrg., Univ. of Pa., and *for mail*, 3905 Walnut St., Philadelphia, Pa.
- WHEELER, Charles Van Cise (1906), Supt., Washington Steel & Ordnance Co., P. O. Box 812, and *for mail*, 1609 Ave. of the Presidents, Washington, D. C.
- WHEELER, Clifton Harold (1901), V. P. and Genl. Mgr., C. H. Wheeler Mfg. Co., Lehigh Ave. and 18th St., Philadelphia, Pa.
- WHEELER, Clifton Harold, Jr. (1913), Chicago Dist. Mgr., C. H. Wheeler Mfg. Co., 1325 Marquette Bldg., Chicago, Ill.
- WHEELER, Earl (Junior, 1907), Genl. Mgr., Elec. Speedometer Co., Evans Bldg., and *for mail*, R. F. D. 4, Lorcom Lane, Washington, D. C.
- WHEELER, Frank Gideon (Junior, 1913), Mech. Wk., The Miehle Ptg. Press & Mfg. Co., 14th and Robey Sts., Chicago, Ill.
- WHEELER, Frank R. (1909), Mech. Engr., Steam Power Plants, 427 Rialto Bldg., San Francisco, Cal.
- WHEELER, Schuyler Skaats (1899), Pres., Crocker-Wheeler Co., Ampere, and res., Bernardsville, N. J.
- WHEELER, Seth (1894), Pres., A. P. W. Paper Co., Albany, and Castleton, N. Y.
- WHEELER, Wm. Trimble (1905), 286 Greenwich St., and 340 W. 21st St., New York, N. Y.

- WHILDIN, William G. (1912), Supt. Inside Div., Lehigh Coal & Navigation Co., Lansford, Pa.
- WHINERY, Samuel (1895), Cons. Civ. Engr., 95 Liberty St., New York, N. Y., and *for mail*, 203 Glenwood Ave., East Orange, N. J.
- WHIPPLE, C. Earl (1912), Genl. Mgr. and Treas., N. Y. Central Iron Wks. Co., Hagerstown, Md.
- WHIPPLE, William (Junior, 1905), Supt., Cinclare Central Factory, Cinclare, La.
- WHITACRE, Robert Bond (Associate, 1913), Senior Partner, R. B. Whitacre & Co., 205 S. Robert St., and *for mail*, 400 Pleasant Ave., St. Paul, Minn.
- WHITAKER, Henry E. (1891; 1904), Mech. Engr., Parke, Davis & Co., and *for mail*, 146 W. Hancock Ave., Detroit, Mich.
- WHITCOMB, LeRoy A. (Junior, 1909), Checker, N. Y. Edison Co., 55 Duane St., New York, and *for mail*, 205 St. James Pl., care of Henry Macdonald, Brooklyn, N. Y.
- WHITE, E. Field (Associate-Member, 1913), Ch. Engr., White Bros. Co., Mansfield, O.
- WHITE, Edward F. (1891), Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants, Pres., Rutland Mfg. Co., Rutland, Vt.
- WHITE, George Henry (1906), Supt., Oil City Boiler Wks., and *for mail*, 4 Lincoln St., Oil City, Pa.
- WHITE, Herbert J. (1909), Mech. and Cons. Engr., 671 East Drive, Woodruff Pl., Indianapolis, Ind.
- WHITE, James A. (Junior, 1900), Wks. Mgr., Worcester Pressed Steel Co., and *for mail*, 12 Clearview Ave., Worcester, Mass.
- WHITE, John Culbertson (1906; 1911), Cons. Steam and Ch. Operating Engr., Capitol Power Plant, and *for mail*, 622 E. Main St., Madison, Wis.
- WHITE, Joseph J. (1880), Pres., Joseph J. White, Inc., New Lisbon, N. J.
- WHITE, Merton G. (Junior, 1906), Ball Eng. Co., 39 Cortlandt St., New York, N. Y.
- WHITE, Peter Desmond (Junior, 1913), Structural Designer, C. P. R. Dept. of Natural Resources, Calgary, Alberta, Canada, and 970 Park Ave., New York, N. Y.
- WHITE, Wm. M. (1907), Mgr. and Ch. Engr. Hyd. Dept., Allis-Chalmers Co., and *for mail*, A 375 Lake Drive, Milwaukee, Wis.
- WHITEFORD, James F. (1908), Counselling Engr., Suffern & Son, Salisbury House, London Wall, E. C., London, England.
- WHITEHEAD, George E. (1887), Mech. Engr., 621 Broadway, Providence, R. I.
- WHITESIDE, Walter Hunter (1910), Stevens-Duryea Co., Chicopee Falls, Mass.
- WHITHAM, Jay M. (1883), Cons. Engr., 607 Bullitt Bldg., Philadelphia, Pa.
- WHITING, Charles W. (1885; 1895), Cons. Engr., 33 Broad St., Boston, and 62 Kirtland St., Cambridge, Mass.

- WHITING, Richard A. (Junior, 1909), Instr. Dept. of Applied Mech., Pratt Inst., Brooklyn, N. Y., and *for mail*, Oradell, Bergen Co., N. J.
- WHITING, S. B. (1880), Life Member; Manager, 1880-1882; Vice-President, 1882-1883; 11 Ware St., Cambridge, Mass.
- WHITLOCK, Elliott H. (1901), Manager, 1913-1916; Factory Mgr., Natl. Carbon Co., and *for mail*, 11,118 Lake Ave., Cleveland, O.
- WHITNEY, Amos (1913), Secy. and Treas., The Whitney Mfg. Co., and *for mail*, 568 Farmington Ave., Hartford, Conn.
- WHITNEY, Baxter D. (1886), Partner, Firm Baxter D. Whitney & Son, Winchendon, Mass.
- WHITNEY, Clarence Edgar (1911), Pres. and Genl. Mgr., The Whitney Mfg. Co., Hartford, Conn.
- WHITNEY, Leslie Denman (Junior, 1913), Mgr., Leslie Salt Refining Co., San Mateo, Cal.
- WHITNEY, William F. (1913), M. M., Ansonia Brass and Copper Branch, The Am. Brass Co., and *for mail*, 47 Franklin St., Ansonia, Conn.
- WHITNEY, Wm. M. (Associate, 1886), Winchendon, Mass.
- WHITNEY, William S. (1911), Supervising Engr., Am. Woolen Co., Boston, and *for mail*, Lawrence, Mass.
- WHITON, Lucius E. (1905), Mgr. and Mech. Engr., D. E. Whiton Mch. Co., 190 Howard St., and *for mail*, 71 William St., New London, Conn.
- WHITTED, Col. Thomas B. (1900; 1903; 1909), Mech. Engr., Realty Bldg., and 706 E. Blvd., Charlotte, N. C.
- WHITTEMORE, D. J. (1889), Cons. Engr., C. M. & St. P. Ry. Co., 222 Biddle St., Milwaukee, Wis.
- WHITTEMORE, Herbert L. (1903; 1910), Fayerweather Hall, Columbia Univ., New York, N. Y.
- WHITTEMORE, John R. (1902), Santa Barbara, Cal.
- WHITTIER, Chas. Robert (1909), Canutillo, Tex.
- WHITTLESEY, James T. (1907), Engr., Claus Spreckels Bldg., San Francisco, and Berkeley, Cal.
- WHYTE, Frederic M. (1902), Vice-President, 1908-1910; V. P., Hutchins Car Roofing Co., 103 Park Ave., New York, and *for mail*, 14 Benedict Ave., Tarrytown, N. Y.
- WHYTE, John S. (1902), Mech. Engr., Dominion Coal Co., Ltd., Glace Bay, N. S., Canada.
- WICK, Henry (Associate, 1903), 710 Dollar Savings & Trust Co., Bldg., and 416 Wick Ave., Youngstown, O.
- WICKERSHAM, Nathan R. (1907), Supt., Ingersoll-Rand Co., Painted Post, and Corning, N. Y.
- WIDDICOMBE, R. A. (1898; 1906), Engr., 5552 Lakewood Ave., Chicago, Ill.
- WIELAND, Chas. F. (1901), Cons. Engr., 1801 Claus Spreckels Bldg., San Francisco, and Monte Rosa Terrace, Garber St., Berkeley, Cal.
- WIGGIN, Ralph Mitchell (1910), Apartado 97-B, Mexico City, Mex.

- WIGHTMAN, D. A. (1884), Cons. Engr., Warren, R. I.
- WILBUR, Ralph Sydney (Junior, 1912), Instr. Mech. Engrg., College of Applied Science, Univ. of Ia., Iowa City, Ia.
- WILBUR, Ralston Thornton (Associate, 1907), Cons. Mech. Engr., P. O. Box 566, Spokane, Wash.
- WILCOX, C. C. (Junior, 1905), Asst. to Cons. Elec. Engr., Hodenpyl, Hardy & Co., 2004 Dime Bank Bldg., and 463 Hamilton Ave., Detroit, Mich.
- WILCOX, Herbert Mygatt (Junior, 1912), Efficiency and Constr. Engr., Miller Franklin & Co., 17 Battery Pl., New York, N. Y.
- WILCOX, Joseph, Jr. (Junior, 1913), Mch. Designer, Package Mchy. Co., and *for mail*, 216 N. Main St., Springfield, Mass.
- WILCOX, Perley Smith (Junior, 1899), Asst. Mgr., Kodak Park Wks., Eastman Kodak Co., and *for mail*, 84 Beverly St., Rochester, N. Y.
- WILCOX, Wallace J. (1891; 1893), Supt. M. P., Las Vegas & Tonapah R. R., Las Vegas, Nev., and 817 W. 28th St., Los Angeles, Cal.
- WILDER, Clifton W. (1907), Elec. Engr., Pub. Service Com., 154 Nassau St., New York, N. Y.
- WILDER, Stuart (Associate, 1904), V. P. and Genl. Mgr., No. Westchester Ltg. Co., and Peekskill Ltg. & R. R. Co., and Engr. Elec. Dept., Westchester Ltg. Co., Mt. Vernon, N. Y.
- WILDER, Sylvanus Wells (Junior, 1907), Supt., Dolphin Jute Mills, and *for mail*, 64 17th Ave., Paterson, N. J.
- WILDIN, George W. (1901), Mech. Supt., N. Y., N. H. & H. R. R., New Haven, Conn.
- WILE, Julius I. (1904; 1908), Chalmers & Williams, Chicago Heights, Ill.
- WILEY, Edgar C. (1903), Cons. Engr., Wiley & Wilson, Peoples Natl. Bank Bldg., and 2477 Rivermont Ave., Lynchburg, Va.
- WILEY, James M. (Junior, 1909), Box 57, Ampere, N. J.
- WILEY, Wm. H. (1880), Treasurer, 1884-1914; 432 Fourth Ave., New York, N. Y., and 73 Halsted St., East Orange, N. J.
- WILHELM, Edward A. (1912), Ch. Draftsman, Am. Hoist & Derrick Co., and *for mail*, 1049 Van Slyke Ave., St. Paul, Minn.
- WILKE, William (1893), Mech. and Chem. Engr., 86 Norwood Ave., Buffalo, N. Y.
- WILKIE, Donald Cook (1911), Mgr. Engrg. Dept., Behn, Meyer & Co., Ltd., Medan, O. K., Sumatra, Dutch East Indies.
- WILKIN, John T. (1898), V. P. and Mech. Engr., Connersville Blower Co., and *for mail*, 905 Grand Ave., Connersville, Ind.
- WILKINSON, Cecil Tom (Junior, 1908), Cons. Engr., 42 Bank Bldg's., Kingsway, W. C., and *for mail*, 8 Culmington Rd., Ealing, W., London, England.
- WILKINSON, John (1907), Mech. Engr., H. H. Franklin Mfg. Co., and *for mail*, 211 Robinson St., Syracuse, N. Y.
- WILKINSON, Thomas L. (1894; 1905), Cons. Mech. Engr., 407 Boston Bldg., and 5833 Montview Blvd., Denver, Colo.
- WILLARD, Lewis Leigh (1907; 1910), Asst. Genl. Mgr., W. J. Rainey Coke Co., Uniontown, Pa.

- WILLCOX, George Bingham (1895; 1908), Pres. and Genl. Mgr., Willcox Engrg. Co., Willcox Engrg. Co. Bldg., and *for mail*, 900 S. Warren Ave., Saginaw, Mich.
- WILLE, Henry Valentin (1900), Asst. to Genl. Supt., The Baldwin Loco. Wks., 500 N. Broad St., and 743 Corinthian Ave., Philadelphia, Pa.
- WILLETTE, Charles William (Associate, 1913), Cons. and Constr. Engr., Power Plants and Mch., Lock Box 156, and 1421 15th Ave., Seattle, Wash.
- WILLHOFFT, F. O. (Associate, 1905), Prof. Mech. Engrg., Queens Univ., and *for mail*, 93 Wellington St., Kingston, Ont., Canada.
- WILLIAMS, Alan Gillespie (Junior, 1909), Eng. House Foreman, Vandalia R. R., and *for mail*, 448 N. 7th St., Terre Haute, Ind.
- WILLIAMS, Alpheus Fuller (Associate, 1900), Genl. Mgr., De Beers Consld. Mines, Ltd., and 1 Park Rd., Kimberly, Cape Colony, S. A.
- WILLIAMS, Charles Henry (1901; 1904), 1346 St. Paul St., Denver, Colo.
- WILLIAMS, D. Curtis (1891), Mech. Engr., 664 Maryland Ave., Pittsburgh, Pa.
- WILLIAMS, Edwin Hawkins (1912), Partner, Williams & Coy, Gem Garage, and Somerset St., Graaff Reinet, S. A.
- WILLIAMS, Ernest D. (Junior, 1905), Turbine Eng. Dept., Genl. Elec. Co., and *for mail*, 1226 Union St., Schenectady, N. Y.
- WILLIAMS, Fay Bailey (Junior, 1912), Mech. Engr., Lamson Co., 161 Devonshire St., Boston, and *for mail*, 19 Rockview St., Jamaica Plain, Mass.
- WILLIAMS, Frank D. (1913), Engr. with Manuel Llera, 30 Church St., New York, N. Y.
- WILLIAMS, Franklin (Associate, 1896), Engrg. Specialties, 39 Cortlandt St., New York, N. Y.
- WILLIAMS, George W. (1904; 1907), Mgr., Chapman Eng. & Mfg. Co., Dundas, Ont., Canada.
- WILLIAMS, Harvey D. (1912), Cons. Engr., The Waterbury Tool Co., 889 St. Nicholas Ave., New York, N. Y.
- WILLIAMS, Howard E. (1895; 1904), Ch. Draftsman, Calumet & Hecla Min. Co., and *for mail*, 1144 Calumet Ave., Calumet, Mich.
- WILLIAMS, Irving (1913), Salesman, Brown & Sharpe Mfg. Co., and *for mail*, 488 Lloyd Ave., Providence, R. I.
- WILLIAMS, Llewellyn (1907), Suptg. Engr., United Fruit Co., 131 State St., Boston, and 27 Rockland Ave., Malden, Mass.
- WILLIAMS, Louis Willam (Associate, 1912), Dist. Sales Mgr., Union Drawn Steel Co., 460 Washington St., New York, and *for mail*, 1356 Pacific St., Brooklyn, N. Y.
- WILLIAMS, Nezza N. (Junior, 1913), Mech. Engr., Harrisburg Light & Power Co., and *for mail*, 1421 Market St., Harrisburg, Pa.
- WILLIAMS, Richard Grant (Junior, 1912), Safety Engr., Norton Co., and *for mail*, 38 Orne St., Worcester, Mass.

- WILLIAMS, Walter Gordon (1911), Supt. of Constr., Doherty Operating Co., 60 Wall St., New York, N. Y.
- WILLIAMS, Wilbur S. (Junior, 1912), Mech. Engr., The Wabash Screen Door Co., 2222 Elm St., S. E., Minneapolis, Minn.
- WILLIAMSON, Alfred (1902; 1912), Mech. Engr., Dept. Water Supply, Gas and Elec., 13 Park Row, New York, and *for mail*, Pondfield Rd., Bronxville, N. Y.
- WILLIAMSON, George E. (1906; 1913), Ch. Engr., Strathmore Paper Co., Mittineague, and *for mail*, 74 Forest Park Ave., Springfield, Mass.
- WILLIAMSON, Wm. C. (1882), Valley Rd. and 12th St., Oak Lane, Philadelphia, Pa.
- WILLINK, William August T. (1912), Mech. Engr. in Charge Drafting Office, Arbuckle Bros. Sugar Refinery, foot of Pearl St., and *for mail*, 540 Eighth St., Brooklyn, N. Y.
- WILLIS, Edward J. (1895; 1896), Prop., Richmond Elec. Wks., P. O. Box 416, Richmond, Va.
- WILLISTON, Arthur L. (1896; 1899), Prin., Wentworth Inst., Boston, and *for mail*, 27 Kilsyth Rd., Brookline, Mass.
- WILLISTON, Belvin Thomas (1905), Wks. Mgr., United Injector Co., 23 Watson St., Boston, and 3 Monmouth St., Somerville, Mass.
- WILLOCK, S. R. (1912), Engr. of Sales, Mesta Mch. Co., and *for mail*, Box 1124 Pittsburgh, Pa.
- WILLS, C. Harold (1909), Ch. Engr. and Factory Mgr., Ford Motor Co., and *for mail*, Box 44, North End Sta., Detroit, Mich.
- WILLSON, Ernest M. (Associate, 1909), Ch. Draftsman, Hart-Parr Co., and *for mail*, 610 Illinois St., Charles City, Ia.
- WILLSON, Frank J. (Junior, 1913), Y. M. C. A., Batavia, N. Y.
- WILLSON, Frederick Newton (1883), Prof. Descriptive Geometry and Tech. Drawing, Princeton Univ., and *for mail*, Box 63, Princeton, N. J.
- WILMORE, John J. (1893), Dean Sch. of Engrg., Ala. Poly. Inst., Auburn, Ala.
- WILSON, Archibald H. (Associate, 1908), Mead-Morrison Mfg. Co., East Boston, and *for mail*, 21 Butler St., Lawrence, Mass.
- WILSON, Birton N. (1904), Prof. Mech. Engrg., Univ. of Ark., and *for mail*, 241 College Ave., Fayetteville, Ark.
- WILSON, Charles E. (1912), Asst. Sales Mgr., Internatl. Steam Pump Co., 820 Old Colony Bldg., and *for mail*, 7347 Harvard Ave., Chicago, Ill.
- WILSON, Chester Worcester (Junior, 1911), Saco-Lowell Shop, and *for mail*, 143 Westford St., Lowell, Mass.
- WILSON, Clarence C. (Junior, 1900), Mgr., Wilson Mchy. Co., Corcoran, Cal.
- WILSON, Geo. Samuel (Junior, 1907), Asst. Prof. Mech. Engrg., Wash. Univ., Seattle, Wash.
- WILSON, H. Howell (1913), Supt. of Power Plants, Baltimore & Ohio R. R. Co., Baltimore, Md.
- WILSON, Henry D. (1903; 1912), V. P., Wilson-Snyder Mfg. Co., 2 Ross St., Pittsburgh, and Thornburg, Pittsburgh, Pa.

- WILSON, Henry M. (1911), Dist. Agt., Pittsburgh Valve, Fdy. & Constr. Co., 978 Rockefeller Bldg., and 6801 Euclid Ave., Cleveland, O.
- WILSON, Hugh H. (1907), Supt., Ontario Power Co. of Niagara Falls, and P. O. Box 4, Niagara Falls, N. Y.
- WILSON, Hugh Monroe (Associate, 1913), First V. P., McGraw Publishing Co., Inc., 239 W. 39th St., and *for mail* 375 Park Ave., New York, N. Y.
- WILSON, Jacob D. (Junior, 1903), Pres., Genl. Mgr. and Mech. Engr., Am. Elev. Co., 113-115 Cedar St., New York, N. Y., and *for mail*, 215 Essex Ave., Boonton, N. J.
- WILSON, James (1913), Mech. Engr. Steam Turbine Dept., Allis-Chalmers Mfg. Co., Milwaukee, and *for mail*, 576 69th Ave., West Allis, Wis.
- WILSON, James Edward (1887), Mech. Engr., The Natl. Lock Washer Co., 65 Johnson St., Newark, N. J., and 205 W. 122d St., New York, N. Y.
- WILSON, Lester G. (1903; 1907; 1913), Secy. and Engr., Jas. G. Wilson Mfg. Co., New York, N. Y., Mgr. of Factory, Norfolk, Va., and *for mail*, 502 Mowbray Arch, Norfolk, Va.
- WILSON, Nelson C. (1906), 209 Ninth St., Pittsburgh, Pa.
- WILSON, Percy Hartshorne (1912), Secy., Asso. of Am. Portland Cement Mfrs., 1526 Land Title Bldg., Philadelphia, Pa.
- WILSON, Robert Alexander (Junior, 1910), Ohio Wks., Carnegie Steel Co., Youngstown, O.
- WILSON, William L. (Junior, 1907), Wilson-Maltman Elec. Co., 30 S. Charles St., Baltimore, Md.
- WILSON, Wm. R. (Junior, 1899), Alberger Pump & Condenser Co., 140 Cedar St., New York, and *for mail*, 224 Palisade Ave, Yonkers, N. Y.
- WILT, A. D., Jr. (1913), V. P. and Genl. Mgr., The Schweppe & Wilt Mfg. Co., Champlain and Meldrum Ave., and *for mail*, 525 Jefferson Ave., Detroit, Mich.; also, Pres., The Wilt Twist Drill Co. of Canada, Ltd., Walkerville, Canada.
- WINGER, Stanley D. (Junior, 1904), Sales Engr., Green Engrg. Co., 28 E. Jackson St., and 4447 Indiana Ave., Chicago, Ill.
- WINGO, Richard T. (1910), Pres., Superior Mch. & Engrg. Co., 51-53 Fort St., E., and *for mail*, 43 Euclid Ave., E., Detroit, Mich.
- WINSHIP, W. E. (1908), V. P., Adamant Battery Co., 363 Dorchester Ave., Boston, Mass.
- WINSOR, Paul (1910), Mech. and Elec. Engr., Ch. Engr., Boston Elevated Ry. Co., 101 Milk St., Boston, and Weston, Mass.
- WINTERROWD, William H. (Junior, 1907), Mech. Engr., Canadian Pacific Ry., and *for mail*, 817 St. Joseph Blvd., Montreal, Que., Canada.
- WINTHER, Chas. A. G. (1897; 1900), Pres. and Mgr., Chas. A. G. Winther Co., Inc., 91 High St., Boston, and 122 Highland Rd., West Somerville, Mass.
- WINTON, Alexander (1913), Pres., Winton Motor Car Co., Cleveland, O.
- WINTZER, Rudolph (1908), 685 Farwell Ave., Milwaukee, Wis.

- WIPPERMANN, William (Junior, 1913), Sales Engr., Yarnall-Waring Co., Nelson Valve Co., Rm. 301, 30 Church St., New York, N. Y., and Chilton, Wis.
- WISCHMEYER, Carl (Associate-Member, 1913), Asst. Prof. Drawing and Mch. Design, Rose Poly. Inst., and *for mail*, 1840 N. 9th St., Terre Haute, Ind.
- WISEWELL, Francis H., Jr. (Junior, 1905), Gifford-Wood Co., and *for mail*, 8 S. 4th St., Hudson, N. Y.
- WISHART, William Donaldson (1913), M. M., Bausch & Lomb Optical Co., 635 St. Paul St., and 55 Tacoma St., Rochester, N. Y.
- WISNER, George M. (1907), Ch. Engr., Chicago Drainage Canal, 900 S. Michigan Ave., Chicago, Ill.
- WITHINGTON, Sidney (Junior, 1908), Asst. Engr., McHenry & Murray, 254 Huguenot St., New Rochelle, N. Y., and *for mail*, 35 Bay State Rd., Boston, Mass.
- WOLCOTT, Henry A. (1897), Mech. and Civ. Engr., West Hartford, Conn.
- WOLDENBERG, I. (Junior, 1903), Ch. Engr., Ingersoll-Rand Co., 165 Queen Victoria St., London, E. C., and Cleve Hall, Champion Hill, Denmark Hill, London, S. E., England.
- WOLF, Otto C. (1889), Engr. and Arch., 511-512 Denckla Bldg., and 1706 Master St., Philadelphia, Pa.
- WOLF, Robert Bunsen (1913), Mgr. of Mfg., Burgess Sulphite Fibre Co., and *for mail*, 128 Prospect St., Berlin, N. H.
- WOLFE, Elvin A. (1912), Supt., Penn-Allen Cement Co., Nazareth, Pa.
- WOOD, Albert Carroll (1894; 1900; 1904), Cons. Mech. Engr., Pa. Bldg., 15th and Chestnut Sts., and N. W. cor. 52d St. and Gainor Rd., Philadelphia, Pa.
- WOOD, Arthur J. (1898; 1907), Assoc. Prof. Railroad Mech. Engrg., Pa. State College, State College, Pa.
- WOOD, Augustus (1901), Ch. Draftsman, Niles Tool Wks. Co., and 306 S. D. St., Hamilton, O.
- WOOD, Benjamin F. (1897; 1907), Ch. Engr., The United Gas & Elec. Corp., 40 Wall St., New York, N. Y.
- WOOD, Edward R., Jr. (Junior, 1900), Life Junior; Sales Mgr., R. D. Wood Co., 400 Chestnut St., and *for mail*, 245 S. 17th St., Philadelphia, Pa.
- WOOD, Ernest Henry (1913), Mech. Engr., East Malleable Iron Co., and *for mail*, 2300 Monroe St., Wilmington, Del.
- WOOD, Erwin E. (1900), Life Member; Salesman, Jones & Lamson Mch. Co., and *for mail*, 208 Philadelphia Ave., E., Detroit, Mich.
- WOOD, Frank J. (1899), Ch. Engr., Marx & Rawolle, 9 Van Brunt St., and *for mail*, 25 Clinton St., Brooklyn, N. Y.
- WOOD, Frederick William (1913), Pres., Md. Steel Co., Sparrows Point, and *for mail*, Keyworth Ave., Park Heights, Baltimore, Md.
- WOOD, Geo. R. (1906), Elec. and Mech. Engr., Berwind-White Coal Min. Co., 1120 Arcade Bldg., and Racquet Club, Philadelphia, Pa.

- WOOD, Henry M. (Associate, 1913), Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave., Cincinnati, O.
- WOOD, Kenneth F. (Associate, 1899), Supt., Sayles' Bleacheries, Saylesville, and 23 Maynard St., Pawtucket, R. I.
- WOOD, Stanley Victor (Associate-Member, 1913), Bachelor Hall, Wilkinsburg, Pa.
- WOOD, Thomas C. (Junior, 1909), U. S. Inspr., Isthmian Canal Com., 24 State St., New York, and *for mail*, 359 St. John's Pl., Brooklyn, N. Y.
- WOOD, Walter (1880; 1890), R. D. Wood & Co., 400 Chestnut St., and 1620 Locust St., Philadelphia, Pa.
- WOOD, William H. (1889), Engr., and Bldr. Spec. Mchy., 10 South Ave., and 43 Washington St., Media, Pa.
- WOOD, William R. (1913), Engr. of Tests, Great No. Ry. Co., and 552 Westminster St., St. Paul, Minn.
- WOODARD, Louis A. (1900; 1904), V. P. and Genl. Mgr., The William Tod Co., Youngstown, and Boardman, O.
- WOODBURY, C. J. H. (1880), Manager, 1882-1885; Vice-President, 1887-1889; Life Member; Cons. Engr., 45 Milk St., Boston, and *for mail*, 51 Baltimore St., Lynn, Mass.
- WOODMAN, Forrest E. (Junior, 1910), Asst. Engr., U. S. Bureau of Mines, 40th and Butler Sts., and *for mail*, 1820 University Ave., Pittsburgh, Pa.
- WOODMAN, George A. (1911), Mech. Engr., Spencer Otis Co., 747 Ry. Exch., and *for mail*, 6752 Perry Ave., Chicago, Ill.
- WOODMANSEE, Fay (1911), Cons. Engr., Woodmansee & Davidson, 1048 First Natl. Bank Bldg., Chicago, and 430 18th Ave., Maywood, Ill.
- WOODRUFF, Clarence Atha (Junior, 1912), Asst. Supt. Mfg. Dept., Am. Tube & Stamping Co., and 31 Stratfield Rd., and *for mail*, Box 863, Bridgeport, Conn.
- WOODS, Mercer Hugh (Junior, 1912), Mech. Engr., Bates Valve Bag Co., Chicago, Ill., and *for mail*, care of Dr. J. R. Woods, Aylmer, W., Ont., Canada.
- WOODWARD, Arthur Herbert (1913), Pres., The Internatl. Register Co., and *for mail*, 15 S. Throop St., Chicago, Ill.
- WOODWARD, Sherman Melville (1907), Prof. Mech., State Univ. of Ia., Iowa City, Ia.
- WOODWELL, Julian E. (1900; 1908), Cons. Engr., Terminal Bldg., Park Ave. and 41st St., New York, and 353 Egmont Ave., Mt. Vernon, N. Y.
- WOODY, Guy Vimont (Junior, 1911), Mech. Engr., Allis-Chalmers Co., and *for mail*, University Club of Milwaukee, Milwaukee, Wis.
- WOOLLEY, Harold Oakley (Junior, 1909), Mech. Engr., Power Spec. Co., and 40 Elizabeth St., Dansville, N. Y.
- WOOLSON, Harry Thurber (1907), Ch. Engr., Gas Eng. & Power Co. and Chas. L. Seabury & Co., Consldt., New York, and *for mail*, Lawton St., Lincoln Park, Yonkers, N. Y.
- WOOLSON, Ira H. (1896), Cons. Engr., Natl. Bd. of Fire Underwriters, 135 William St., New York, N. Y.

- WOOLSON, Orosco C. (1886), Constr. Engr. and Contr., 39 Cortlandt St., New York, N. Y., and Newark, N. J.
- WOOLSON, Wm. D. (Associate, 1897), Treas., Jones & Lamson Mch. Co., Springfield, Vt.
- WORCESTER, H. E. (Associate, 1903), Supt., Revere Sugar Refinery, East Cambridge, and *for mail*, 10 Kirkland Rd., Cambridge, Mass.
- WORDEN, Euclid P. (1899; 1902), Mgr., Fred. M. Prescott Steam Pump Co., and 571 Summit Ave., Milwaukee, Wis.
- WORTH, Charles C. (1908), Asst. Supt. Constr., N. Y. Edison Co., 55 Duane St., New York, N. Y.
- WORTHINGTON, Charles C. (1882), Manager, 1883-1886; Man-walamink, Shawnee-on-Delaware, Pa.
- WRAITH, William (1903), Internatl. Smelting & Refining Co., Kearns Bldg., Salt Lake City, Utah.
- WRIGHT, Calvin Shelor (Junior, 1907), Calhoun, Ga.
- WRIGHT, Ernest N. (1890), Cons. Engr., 691 Huntington Terrace, Pasadena, Cal.
- WRIGHT, James Knox (1894), Cons. Engr. and Mfr., Wright's Pat. Safety Stop, 390 Smith St., Brooklyn, and 31 Kraft Ave., Bronxville, N. Y.
- WRIGHT, Reginald A. (1907), Ch. Draftsman Hyd. Dept., Wellman, Seaver, Morgan Co., Cleveland, and *for mail*, 3024 Euclid Blvd., Cleveland Heights, O.
- WRIGHT, Ross Pier (1911), Secy. and Treas., Reed Mfg. Co., and *for mail*, 235 W. 6th St., Erie, Pa.
- WRIGHT, Roydon V. (1907), Managing Editor, Railway Age Gazette, Woolworth Bldg., New York, N. Y., and *for mail*, 192 N. Walnut St., East Orange, N. J.
- WRIGHT, Wm. Quinby (1908), Min. and Civ. Engr., 727 Merchants Exch. Bldg., San Francisco, and Sausalito, Cal.
- WURTS, Edward Vanuxem (Associate, 1897), Mech. Engr., United Engrg. & Fdy. Co., and *for mail*, 622 Kirtland St., Pittsburgh, Pa.
- WYATT, Edgar William (1910), Cons. Engr., Houchin-Aiken Co., 113-123 53d St., and 708 Ocean Ave., Brooklyn, N. Y.
- WYER, Samuel S. (1904; 1911), Cons. Engr., Harrison Bldg., Columbus, O.
- WYLIE, Howard M. (Junior, 1912), 10 W. 96th St., New York, N. Y.
- WYMAN, Arthur H. (Junior, 1909), Sales and Estimating Engr., Allis-Chalmers Co., and 560 32d St., Milwaukee, Wis.
- WYMAN, Horace (1892), Cons. Engr., 20 Harvard St., Worcester, Mass.
- WYNKOOP, Hubert S. (1908), Elec. Engr., Dept. Water Supply, Gas and Elec., 13-21 Park Row, New York, and *for mail*, 1574 50th St., Brooklyn, N. Y.
- YARNALL, D. Robert (1903; 1911), Mech. Engr., Yarnall-Waring Co., and Genl. Mgr. and V. P., Nelson Valve Co., and *for mail*, Chestnut Hill; also, 316 Preston St., Philadelphia, Pa.
- YARYAN, Homer T. (1892), V. P., The Yaryan Naval Stores Co., Toledo, O.

- YATES, Richard L. (Junior, 1907), Asst. Sales Mgr., The Platt Iron Wks. Co., and *for mail*, 108 Oxford Ave., Dayton, O.
- YATES, Sheldon Smith (Junior, 1912), Instr. Civ. Engrg., Harvard Graduate Sch. of Engrg., Pierce Hall, and 35 Bowdoin St., Cambridge, Mass.
- YAWGER, Edwin (Associate, 1899), Ocean Beach, San Diego Co., Cal.
- YEOMANS, Lucien I. (1910), Industrial Engr., 516 Commercial Natl. Bank Bldg., and 912 Winona Ave., Chicago, Ill.
- YEREANCE, William B. (1894), Cons. Engr. and Operator for Public Utilities, 128 Broadway, New York, N. Y., and 418 Center St., South Orange, N. J.
- YERZLEY, William Alfred (1912), Secy. and Engr., Nagle Re-Blade Knife Co., and *for mail*, 39-41 S. 6th St., Newark, N. J.
- YODER, Jacob Herbert (Junior, 1912), Instr. of Apprentices, Pa. R. R. Co., West Philadelphia, and *for mail*, 3710 Baring St., Philadelphia, Pa.
- YONT, Charles A. (1900), Secy., Flint-Lomax Mfg. Co., 1400-1412 Delgany St., Denver, Colo.
- YORK, H. W. (1894), Cons. Engr., Am. Smelting & Refining Co., 165 Broadway, New York, and 121 Bay 26th St., Bensonhurst, L. I., N. Y.
- YORK, John James (1910), Ch. Engr., St. Lawrence Sugar Refining Co., Montreal, and *for mail*, 775 Notre Dame St., Maisonneuve, Que., Canada.
- YORK, L. D. (1889), Pres., Portsmouth St. R. R. & Light Co., Portsmouth, O.
- YORK, Robert (1901; 1908; 1911), V. P. and Treas., York Lumber & Mfg. Co., V. P., Grant Lumber Co., and 1215 Sledge Ave., Memphis, Tenn.
- YORKSTON, John Edward (1912), Engr. in Charge Drafting Dept., Genl. Elec. Co., and *for mail*, 140 Third Ave., Schenectady, N. Y.
- YOUNG, Chas. D. (1902; 1910), Engr. of Tests, Pa. R. R., Altoona, Pa.
- YOUNG, Gilbert A. (1906), Head of Dept. Mech. Engrg., Purdue Univ., and *for mail*, 739 Owen St., Lafayette, Ind.
- YOUNG, John Mason (1902; 1910), Dean of Engrg., College of Hawaii, and Cons. Engr., Honolulu, Hawaii.
- YOUNG, John P. (1899; 1906), Pres., Reinforced Tile Roof Co., Box 43, and 1510 Fifth Ave., Youngstown, O.
- YOUNG, John T. (1900; 1908), First V. P. and Genl. Mgr., Grand Rapids Gas Light Co., and 255 Union Ave., S., Grand Rapids, and V. P., Muskegon Traction & Ltg. Co., Muskegon, Mich.
- YOUNG, William A. (1901; 1905; 1906), Ch. Draftsman, Pawling & Harnischfeger Co., and *for mail*, 306 21st Ave., Milwaukee, Wis.
- ZACH, Louis M. (Junior, 1912), Constr. Engr., St. Joseph Lead Co., and *for mail*, P. O. Box 286, Bonne Terre, Mo.
- ZACHERT, Arthur Robert (Junior, 1910), Ch. of Production Dept., The Babcock & Wilcox Co., Bayonne Plant, and *for mail*, 86 W. 8th St., Bayonne, N. J.

- ZAPP, Louis M. (Junior, 1906), A. L. Drum & Co., 624 Am. Trust Bldg., and 4619 Magnolia Ave., Chicago, Ill.
- ZEHNDER, Chas. H. (1890), Pres., Austen Coal & Coke Co., 140 Cedar St., New York, N. Y., and Allenhurst, N. J.
- ZILEN, Victor W. (Associate, 1913), Engrg. Dept. Car Equip., Interborough Rapid Transit Co., 98th St. and Third Ave., New York, and *for mail*, 33 N. Briggs Ave., Richmond Hill, L. I., N. Y.
- ZIMMERMAN, Alfred William (1913), Cons. Engr., P. O. Box 1494, Houston, Tex., and Fort Wayne, Ind.
- ZIMMERMAN, Oliver B. (1905), Advisory Engr., Internatl. Harvester Corp., 11-13 Rue d'Arenberg, Brussels, and 20 Rue Charles Legrelle, Etterbeck, Brussels, Belgium.
- ZIMMERMANN, John E. (Junior, 1907), Member of Firm, Day & Zimmermann, 611 Chestnut St., Philadelphia, and Rydal, Pa.
- ZIMMERMANN, William Frederick (Junior, 1911), Ch. Draftsman and Designer, Gould & Eberhardt, and *for mail*, 42 Treacy Ave., Newark, N. J.
- ZOHE, Ludwig A. (1903; 1904), Solvay Process Co., and *for mail*, 309 E. Kennedy St., Syracuse, N. Y.
- ZOWSKI-ZWIERZCHOWSKI, S. J. (1910), Prof. Mech. Engrg., Univ. of Mich., 327 New Engrg. Bldg., and 2006 Washtenaw Ave., Ann Arbor, Mich.

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Ryding, Herbert Charles, Asst. to V. P., Tenn. Coal, Iron & R. R. Co.
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- Juneau.**—Bruff, Charles E., Constr. Engr., Alaska Gastineau Min. Co.
- Nome.**—Gibson, Arthur, Cons. Engr., P. O. Box 35.

ARIZONA

- Clifton.**—Hardy, Norman Gladding (Junior), M. M., Smelter, Ariz. Copper Co.
- Douglas.**—Heidelberg, Frederick Martin (Junior), 927 Tenth St.

ARIZONA, Douglas (Continued).

- McGregor, Alexander Grant, Member of Firm, Repath & McGregor, Engrs.
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 Hawkins, George Walter, Mgr. Tucson Office, Chas. C. Moore & Co. Engrs.

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- Fayetteville.**—Wilson, Birton N., Prof. Mech. Engrg., Univ. of Ark.
Hope.—Steen, Arthur B.
Hot Springs.—Fordyce, John R., Cons. Engr., Cotton Ginning Conveying and Compressing Mch., Box 346.
Stamps.—Green, Frederick William, Genl. Mgr., La. & Ark. Ry. Co., P. O. Box 345.

CALIFORNIA

- Alameda.**—Sprado, Ralph, Ch. Engr., Dow Pump & Diesel Eng. Co.
Berkeley.—Flinn, Charles F., Mech. Engr., Tree Haven Apts. Le Conte, Joseph Nisbet, Prof. Engrg. Mechanics, Univ. of Cal., Mechanics Bldg.
 Maddock, George F., Pacific Coast Engr., H. M. Byllesby & Co., 2811 College Ave.
Burlingame.—Kraus, Julius (Junior).
Chino.—Taddiken, J. F. (Junior), Engr. Am. Beet Sugar Co.
Corcoran.—Wilson, Clarence C. (Junior), Mgr. Wilson Mch. Co.
Hamilton City.—Feicht, Edward R. (Junior), Ch. Engr., Sacramento Valley Sugar Co.
Lindsay.—Fenn, Robert Willson.
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 Baum, Robert Stanton (Junior), Mgr., Union Gas Eng. Co., 126 N. Los Angeles St.
 Blencowe, John, 723 Edgemont Blvd.
 Breer, Carl (Junior), Production Supt., Moreland Motor Truck Co., Wilhardt and Main Sts.
 Brett, Henry E., Cons. Engr., 114 N. Spring St.
 Carr, Jesse Douglas, 2506 W. 8th St.
 Clark, Herbert Hamilton, Mgr., Chas. C. Moore & Co. Engrs., 424-425 I. N. Van Nuys Bldg.
 Cox, Frank G., Local Mgr., Otis Elev. Co., 218-220 E. 4th St.
 Doolittle, Harold Lukens (Junior), Asst. Constr. Engr., So. Cal. Edison Co., 329 San Fernando Bldg.
 Faulkner, David Sinclair, Union Tool Co., Union Oil Bldg.
 France, Laurel Edson (Junior), Mech. Draftsman, 1737 W. Adams St.
 Garrett, John Antony (Junior), Gas and Mech. Engr., Fairbanks, Morse & Co., 423-429 E. 3d St.

CALIFORNIA, Los Angeles (Continued).

- Gump, Walter B. (Junior), Mech. and Elec. Engr., 1655 Seventh Ave.
 Harris, Ford W., Cons. Engr., 1029 Higgins Bldg.
 McGwire, Charles H., Cons. Mech. and Elec. Engr., 3936 Trinity St.
 Noble, William A. E., Genl. Mgr., United Casting Co.
 Repath, Charles H., Repath & McGregor, 1211 Hollingsworth Bldg.
 Rhodes, George Harold (Junior), Bishop & Co.
 Root, Orlando J., Moline Auto Co., Inc., 1732-1740 W. Washington St.
 Smith, W. W., Sales Engr., Chas. C. Moore & Co. Engrs., 424 I. N. Van Nuys Bldg.
 Tracy, Harmon Northrop, Engr. and Prop., The H. N. Tracy Co., 701 Central Bldg.
 Wartenweiler, Otto, Mgr., Otto Wartenweiler & Co., Engrs., 1133 Van Nuys Bldg.
 Weeks, Paul, Mech. Engr., 1011 Hollingsworth Bldg., 6th and Hill Sts.
- Marysville.**—Miller, John S., Yuba Constr. Co.
- Modesto.**—Mayall, E. L., Rancher.
- Oakland.**—Brown, John Quincy, Asst. to Genl. Mgr., San Francisco-Oakland Terminal Ry., 313 Syndicate Bldg.
 Burnet, Edgar E., Asst. Supt., Judson Mfg. Co.
 Gorham, William Reagan (Junior), Supt., Gorham Engrg. Co.
 Ross, Frank Eugene, Supt. and Partner, Gilro Mch. Co.
- Oroville.**—Leeson, Charles Gillette, Mgr. Dredging Dept., Oro Water, Light & Power Co., 715 Robinson St.
- Pasadena.**—Adams, Walter Holbrook, Prof. Mech. Engrg., Throop Poly. Inst.
 Wright, Ernest N., Cons. Engr., 691 Huntington Terrace.
- Pittsburg.**—Cole, Charles S., Secy. and Treas., Columbia Steel Co.
- Point Loma.**—Tyberg, Oluf.
- Redlands.**—Mooney, Franklin Proctor (Junior), 424 W. Olive St.
- Riverside.**—Sherman, W. D., Inventor, Cons. Engr., 1447 Mulberry St.
- Sacramento.**—Blee, Harry Harmon, Ch. Mech. Draftsman, Dept. of Engrg., State of Cal.
 Browning, Charles, Jr., Foreman of Lab., So. Pacific Co.
 Glvan, Albert, City Engr., City of Sacramento, City Hall.
 Szymanski, Casimir Emil, Ch. Draftsman, So. Pacific Co.'s Shops.
- San Diego.**—Bacon, John Lord, Rm. 5, City Hall.
 Yawger, Edwin, Ocean Beach.
- San Francisco.**—Armes, George A., Engr-in-Ch., Union Iron Wks. Co.
 Baum, Frank G., Cons. Engr., Ch. Engr., Hydroelectric Dept., Pacific Gas & Elec. Co., 1404 Chronicle Bldg.
 Bayley, Guy Lynfield, Ch. Mech. and Elec. Engr., Panama-Pacific International Exposition Co., Service Bldg., Exposition Grounds.
 Beattie, Cecil Emile (Junior), Engr. Pipe Line Dept., Associated Oil Co., 619 Sharon Bldg.
 Bebb, J. C., Dist. Service Mgr., Otis Elev. Co., 2300 Stockton St.

CALIFORNIA, San Francisco (Continued).

- Borchardt, Albert Hugo (Junior), Henry R. Worthington, 308 Sharon Bldg.
- Braun, Carl F., Pres., C. F. Braun & Co., 503 Market St.
- Britton, John A., V. P. and Genl. Mgr., Pacific Gas & Elec. Co., 445 Sutter St.
- Cattell, William A., Cons. Engr., Foxcroft Bldg.
- Cory, Harry Thomas, Cons. Engr., 802 Nevada Bank Bldg.
- Cranston, Robert E., Min. Engr., 437 Holbrook Bldg.
- Davis, William J., Jr., Pacific Coast Engr., Genl. Elec. Co., 720 Rialto Bldg.
- Davol, George K., Mech. Engr., 503 Market St.
- Delany, Charles H., Pacific Gas & Elec. Co.
- DeRemer, Jay Grant, Ch. Engr., United Light & Power Co., 57 Post St.
- Dickie, George W., 24 California St.
- Doble, William A., Ch. Engr., The Pelton Water Wheel Co., 19th and Harrison Sts.
- Downard, David, Jr., Mgr. Marine Dept., Genl. Petroleum Co., 343 Sansome St.
- Dunn, Kingsley G., V. P., Hunt Mirk & Co., Inc., 141 Second St.
- Eckart, W. R., Cons. Engr., 3014 Clay St.
- Fitzsimmons, James Calvin, Mgr. Fuel, Gas and Road Oils and Asphaltum Depts., Stand. Oil Co.
- Foley, Walter J. (Junior), Mech. Engr., San Francisco Bridge Co., 1005 Nevada Bank Bldg.
- Forsyth, Robert, Cons. Engr., 1996 Green St.
- Gay, Frederick Waldo, Mech. Engr., The J. G. White Engrg. Corp.
- Gunn, Charles M., Pres. and Mgr., Columbia Steel Co., 503 Market St.
- Hanson, Augustus, Cons. and Constr. Engr., 1049 14th St.
- Hardy, C. E. (Junior), Industrial Engr., Westinghouse Elec. & Mfg. Co., 165 Second St.
- Henes, Louis G., Mgr., Manning, Maxwell & Moore, Inc., Mgr., Commer. Acetylene Ry. Light & Signal Co., Mgr., Ry. Materials Co., 247-249 Monadnock Bldg.
- Henry, Geo. J., Cons. Hyd. and Mech. Engr., 737 Rialto Bldg.
- Holt, Charles Parker, V. P., The Holt Mfg. Co., and V. P. Holt Bros. Co., 304 Balboa Bldg.
- Hopps, John Herbert, Cons. Engr., 503 Market St.
- Howard, Henry Sherwin, Engr., 601 Alaska Commercial Bldg.
- Hudson, Robert Allan (Junior), Partner, Hunter & Hudson, 729 Rialto Bldg.
- Hunt, Andrew M., Cons. Engr., 14 Montgomery St.
- Hurst, George L., Mgr. Dredging Dept., Union Iron Wks. Co.
- Hutchinson, Charles Tripler, Managing Editor, Western Engineering, 420 Market St.
- Hutchinson, Ely Champion, Commer. Engr., The Pelton Water Wheel Co., 19th and Harrison Sts.
- Johnson, William M. (Junior), Engr. Water Supply and Fire Protection, Panama-Pacific Internatl. Exposition, Service Bldg.
- Jones, Edward C., Ch. Engr. Gas Dept., Pacific Gas & Elec. Co., 445 Sutter St.
- Joslyn, Paul L., Mech. Engr., Union Iron Wks.

CALIFORNIA, San Francisco (Continued).

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- Kraemer, Milton (Junior), Asst. to Cons. Mech. Engr., City and Co. of San Francisco, Bd. of Public Wks., Rm. 726 City Hall.
- Lardner, Henry A., V. P., J. G. White Engrg. Corp., Alaska Commer. Bldg.
- Leland, Wm. Emmons, Cons. Engr., 434, 436 Holbrook Bldg., 58 Sutter St.
- McLaren, A. R., Partner, Pacific Gurney Elev. Co., 186 Fifth St.
- Markey, Harry Shaffer, Ch. Engr., City Elec. Co., 320 Beach St.
- Meredith, Wynn, Partner, Sanderson & Porter, 909 Nevada Bank Bldg.
- Mirk, Thomas, Pres., Hunt, Mirk & Co., Inc., 141 Second St.
- Moore, R. S., Treas., Moore & Scott Iron Wks., 678 Second St.
- Morrin, Thos., Cons. Mech. Engr., Balboa Bldg.
- Morris, Edward Thomas, Mgr., Associated Pipe Line Co., Mgr. Pipe Line Dept., Associated Oil Co., 619 Sharon Bldg.
- Murray, Warren Edwards, Ch. Engr., West. Sugar Refining Co., 23d and Louisiana Sts., and Spreckels Sugar Co., Spreckels.
- Naphtaly, Sam L., Pres., Oakland & Antioch Ry., 105 Montgomery St.
- Noble, Patrick, Pres., Pacific Rolling Mill Co., 216 Sharon Bldg.
- Noyes, Wm. S., Min. Engr., 818 Mills Bldg.
- Paulsmeier, Albert Carl, V. P. and Ch. Engr., Byron Jackson Iron Wks., 357-361 Market St.
- Plant, John William, The Yuba Constr. Co., 916 Insurance Exch. Bldg.
- Potbury, Alfred Henry, Mech. Engr. with Robert Dalziel, Jr., 213 First St.
- Ransom, T. W., Cons. Mech. Engr., Bd. of Public Wks.
- Reardon, P. H., Pres and Genl. Mgr., Compressed Air & Genl. Mchy. Co., 39-51 Stevenson St.
- Rix, Edward Austin, Pres. and Mgr., Rix Compressed Air & Drill Co., 219 Spear St.
- Rogers, Edwin Allan (Junior), Operation and Maintenance Dept., Pacific Gas & Elec. Co., 445 Sutter St.
- Rowley, Ridgway Lloyd (Junior), Inspc. Engr., Bd. of Fire Underwriters of the Pacific, 914 Merchants Exch.
- Scholefield, Crighton Welch (Junior), Mech. Engr. Pipe Line Dept., Stand. Oil Co., Rm. 717, 200 Bush St.
- Sibley, Robert, Prof. Mech. Engrg., Univ. of Cal., Berkeley, and Ch. Editor, Journal of Electricity, Power and Gas, 106 Rialto Bldg.
- Small, H. J., Genl. Supt. M. P., So. Pacific Co., Flood Bldg.
- Smith, Lieut. William Walker, Lieut. U. S. N., U. S. S. California, Pacific Sta.
- Stillman, Howard, Mech. Engr. and Engr. of Tests, So. Pacific Co., 1180 Flood Bldg.
- Stoddard, Elgin, V. P. and Genl. Mgr., Chas. C. Moore & Co. Engrs., 40 First St.
- Stuart, Percy Rankin, Pacific Coast Mgr., The Roebling Constr. Co., 623-626 Crocker Bldg.

CALIFORNIA, San Francisco (Continued).

- Stut, J. C. H., Cons. Mech. Engr., 417 Montgomery St.
 Terwilliger, Harry L., First V. P., Harron, Rickard & McCone, 139-149 Townsend St.
 Varney, Frank Hastings, Engr., Pacific Gas & Elec. Co., 1095 Market St.
 Webster, Fred L., Mgr., Cal. Dist. Sales Offices, Allis-Chalmers Mfg. Co., Rialto Bldg.
 Wells, J. Barnard (Junior), Office Mgr., R. B. Guernsey & Co., 436 Rialto Bldg.
 Weymouth, C. R., Ch. Engr., Chas. C. Moore & Co. Engrs., 99 First St.
 Wheeler, Frank R., Mech. Engr., Steam Power Plants, 427 Rialto Bldg.
 Whittlesey, James T., Engr., Claus Spreckels Bldg.
 Wieland, Chas. F., Cons. Engr., 1801 Claus Spreckels Bldg.
 Wright, Wm. Quinby, Min. and Civ. Engr., 727 Merchants Exch. Bldg.
- San Mateo.**—Whitney, Leslie Denman (Junior), Mgr., Leslie Salt Refining Co.
- San Pablo.**—Forsburg, Henry A., Genl. Supt. Trunk Lines, Stand. Oil Co. of Cal.
- Santa Ana.**—Roper, Norman Brownell, 320 W. 6th St.
- Santa Barbara.**—Whittemore, John R.
- South Pasadena.**—Warrington, James N., 2001 La France Ave.
- Stanford University P. O.**—Cross, Charles N., Asst. Prof. Mech. Engrg., Leland Stanford Jr. Univ.
 Durand, Wm. F., Prof. Mech. Engrg., Leland Stanford Jr. Univ.
 Eckart, W. R., Jr., Prof. Mech. Engrg., Leland Stanford Jr. Univ.
 Lesley, Everett Parker, Asst. Prof. Mech. Engrg., Leland Stanford Jr. Univ.
 Marx, Guido Hugo, Prof. Mch. Design, Leland Stanford Jr. Univ.
- Stockton.**—Northcroft, James Fraser Suther (Junior), Mech. Engr. and Spec. Apprentice, The Holt Mfg. Co.
 Springer, Russell S., Secy., The Holt Mfg. Co., Inc.
- Torrance.**—Selser, Thomas Watson (Junior), Mech. Engr., Union Tool Co.
- Visalia.**—Hays, John Coffee, Cons. Engr. and Pres., Mt. Whitney Power & Elec. Co.

CANAL ZONE

- Balboa.**—Nichols, Frederick Chester, Asst. Mgr. Panama Branch, Union Oil Co. of Cal.
 Stokoe, James, Mgr. Panama Branch, Union Oil Co. of Cal.
- Corozal.**—Regan, Ralph Howard (Junior), Insp., Isthmian Canal Com.
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 Clark, Frank C., Asst. Supt. of Erection, Isthmian Canal Com.
 Dye, Ira Willard, Genl. Foreman Transmission Line, Isthmian Canal Com.

CANAL ZONE, Culebra (Continued).

Lee, Ernest Eugene, Supt. of Erection, Dept. of Constr. and Engrg., Isthmian Canal Com.

Schildhauer, Edward, Elec. and Mech. Engr., Isthmian Canal Com.

Gatun.—Decker, James Henry, Designer, Isthmian Canal Com., Office of Div. Engr., Atlantic Div.

Grauten, Sylvester Henry, Testing Engr., Isthmian Canal Com.

Paraiso.—Macfarlane, James, Supt. Dredging, Isthmian Canal Com.

Nelson, Ernest Benjamin (Junior), Paraiso Shops.

Pedro Miguel.—Quick, Ray Lewis (Junior), Isthmian Canal Com.; also, Ithaca, N. Y.

COLORADO

Boulder.—Wallace, Jacob H., Mech. Engr., J. P. Karns Tunneling Meh. Co., Mercantile Trust & Bank Co. Bldg.

Concrete.—Fowden, William, Supt., The U. S. Portland Cement Co.

Denver.—Baker, Frank D., Ch. Engr. Colo. Dept., Am. Smelting & Refining Co., 830 First Natl. Bank Bldg.

Bayle, Emile J., Genl. Engr., Am. Beet Sugar Co.

Bridenbaugh, Elmer Henry, Cons. Mech. Engr., P. O. Box 476.

Brunton, David William, Cons. Min. Engr., 730 Symes Bldg. Comstock, Charles Worthington, Engrg. Mgr., The Goldsborough Co., 514 First Natl. Bank Bldg.

Hall, Charles Anderson (Junior), Asst. to Mgr. Pump and Compressor Dept., The Mine & Smelter Supply Co.

Henderson, J. R., Mgr. Pueblo Wks., The Stearns-Roger Mfg. Co., 1720 California St.

Moody, William F., Designing Engr., 565 Ry. Exch. Bldg.

Nevill, David J., Mech. Engr., The Stearns-Roger Mfg. Co., Cons. Mech. Engr., The Dorr Cyanide Mch. Co.

Posselt, Ejnar, Cons. Engr., Posselt & Co., 511 Ideal Bldg.

Rattle, Paul S., Mgr. Pump and Compressor Dept., The Mine & Smelter Supply Co., 17th and Blake Sts.

Reilly, Wm. J., Dist. Sales Mgr., The Babcock & Wilcox Co., 435 17th St.

Robertson, Ralph Noyes, Power Engr., Am. Smelting & Refining Co.

Sethman, George H. (Junior), Mech. and Elec. Engr., 250 Equitable Bldg.

Shepard, Frank E., Pres. and Mech. Engr., Denver Engrg. Wks., P. O. Box 1802.

Stearns, Thomas B., Min. and Mech. Engr., 1720 California St.

Thomas, David G., Ch. Engr., The Denver Union Water Co.

Trask, Walter H., Jr. (Junior), 845 Penn St.

Walker, Thomas C., Pres., Walker Mfg. Co., 2156 15th St.

Wilkinson, Thomas L., Cons. Mech. Engr., 407 Boston Bldg.

Williams, Charles Henry, 1346 St. Paul St.

Yont, Charles A., Secy., Flint-Lomax Mfg. Co., 1400-1412 Delgany St.

Fort Collins.—Lawrence, J. W., Prof. Mech. Engrg., State Agri. College.

COLORADO (Continued).

Paonia.—Shallenberger, Louis R., Civ., Mech. and Irrigation Engr., Kennedy Bldg.

Pueblo.—McKenna, Jacob Bowman (Junior), Mgr., Minnequa Wks., Colo. Fuel & Iron Co.

Trinidad.—Gauthier, George J., Engr. in Charge Constr., The Trinidad Elec. Transmission Ry. & Gas Co.

Swink.—Bullen, Arthur Charles (Junior), Mech. Engr., The Holly Sugar Co.

CONNECTICUT

Ansonia.—Bowen, David R., Supt., Farrel Fdy. & Mch. Co.

Edwards, William B., Mech. Engr., The S. O. & C. Co.

Ellis, Henry Gibbs (Junior), Asst. M. M. Ansonia Brass and Copper Branch, The Am. Brass Co.

Gager, Edwin Baker, Jr. (Junior), Scientific Management Engr., Farrel Fdy. & Mch. Co.

Schneller, Geo. Otto, Treas., Ansonia O. & C. Co.

Whitney, William F., M. M., Ansonia Brass and Copper Branch, The Am. Brass Co.

Bantam.—Rogers, Winfield S., Pres., Bantam Anti-Friction Co.

Berlin.—Jarvis, Charles M.

Branford.—Hammer, Alfred E., Treas. and Genl. Mgr., Malleable Iron Fittings Co.

Bridgeport.—Brewer, Arthur, Supt. of Plant, Bridgeport Brass Co.

Bullard, Dudley Brewster, Mech. Engr. and Supt., The Bullard Mch. Tool Co.

Bullard, Edward P., Jr., Pres. and Genl. Manager, The Bullard Mch. Tool Co.

Camp, Henry Phillips, Mech. Engr., Remington Arms—Union Metallic Cartridge Co.

Card, Frederic M., 116 Edna Ave.

Clark, Walter R., Mech. Engr., Bridgeport Brass Co.

Coulter, James, V. P., The Automatic Mch. Co.; also, Providence Engrg. Wks., Providence, R. I.

Fletcher, E. Leslie, Pres., Fletcher Engrg. Co., Odd Fellows Bldg.

Hamilton, Edward Waterman (Junior), Mech. Engr., Harvey Hubbell, Inc.

Hoagland, Frank Oscar, Wks. Mgr., Union Metallic Cartridge Co.

Johnson, Henry W., Mech. Supt., The Bullard Mch. Tool Co.

Johnson, James F. (Junior), Dir., State Trade Sch.

Keating, Daniel A., Mech. Supt., Am. Tube & Stamping Co.

Kingsbury, J. G., Pres. and Treas., Grant Mfg. & Mch. Co., 90 Silliman Ave.

Lake, Simon, Pres., Lake Torpedo Boat Co.

Lepper, John G., Cons. Engr., 304 Meigs Bldg.

Macdonald, George MacIntyre, Ballistic Engrg., Remington Arms Union Metallic Cartridge Co.

Miller, Clarence D. S., Pres., The Am. Tube & Stamping Co.

Riker, Andrew L., V. P., Locomobile Co. of Am.

Roos, Delmar G., Asst. Exper. Engr. Engrg. Dept., Locomobile Co. of Am.

Staples, H. A. (Junior), Bridgeport Brass Co.

Thomas, George Carlyle (Junior), Asst. Supt., Singer Mfg. Co., Factory 10.

CONNECTICUT, Bridgeport (Continued).

Warner, Charles Lewis, Pres., Treas. and Genl. Mgr., The Baird Mch. Co.

Webster, William Reuben, Second V. P. and Genl. Supt., Bridgeport Brass Co.

Woodruff, Clarence Atha (Junior), Asst. Supt. Mfg. Dept., Am. Tube & Stamping Co.

Bristol.—Hughes, Frederick George, Ch. Engr., The New Departure Mfg. Co.

Prior, Wilbur Church (Junior), Asst. to Exper. Engr., The New Departure Mfg. Co.

Chester.—Jennings, Arthur Lewis, Treas. and Genl. Mgr., The Russell Jennings Mfg. Co.

Collinsville.—Hill, William, Pres., The Collins Co.

Danbury.—Tomlinson, Royal Drew.

Derby.—Ahrnke, H. P., Secy. and Treas., Dairy Mchy. & Constr. Co.

Huson, Winfield Scott, Genl. Supt., Whitlock Ptg. Press Mfg. Co.

East Haddam.—Lichtenstein, Valentine (Junior), Supt., The Fish Net & Twine Co.

Grosvenordale.—Arnold, Walter S., M. M. and Ch. Engr., Grosvenordale Co.

Groton.—Anderson, John Wallace (Junior), Engr., Elec. Boat Co.

Davison, Gregory C., V. P., Elec. Boat Co.

Gunn, Thomas McCheyne, Charge Designing Dept., Elec. Boat Co.

Lakey, Arthur Benjamin, Draftsman, Elec. Boat Co.

Mahoney, John A. (Junior), Draftsman, Elec. Boat Co.

Hartford.—Allen, Francis B., V. P., The Hartford Steam Boiler Inspc. & Ins. Co., 56 Prospect St.

Austrom, Charles A., Asst. Ch. Engr., The Travelers Ins. Co. and The Travelers Indemnity Co.

Billings, Charles E., Pres. and Genl. Mgr., The Billings & Spencer Co.

Billings, Frederick C., V. P., Billings & Spencer Co.

Blake, Charles S., Secy., The Hartford Steam Boiler Inspc. & Ins. Co.

Bond, Geo. M., Mech. Engr., 141 Washington St.

Buckingham, Earle, Draftsman, Royal Typewriter Co.

Cook, Charles Bannister, Factory Mgr., Royal Typewriter Co., 150 New Park Ave.

Crosby, Edward Harris, Genl. Supt., Veeder Mfg. Co.

Darlington, Philip J., Pres., The Roto Co.

Dowd, Bernard J., Ch. Draftsman and Foreman Exper. Dept., Royal Typewriter Co.

Echols, Francis G., Mgr. Small Tools Dept., Pratt & Whitney Co.

Ehberts, C. J., Mech. Engr. and Pat. Expt., Colt's Pat. Fire Arms Mfg. Co.

Fisher, John, Ch. Engr. Hartford Dist., The Conn. Co.

Flynn, Michael Henry, Supt. Factory, Royal Typewriter Co.

Gilmour, George, Ch. Engr., Travelers Ins. Co.; also, Brooklyn, N. Y.

Greene, Augustine E., Cons. Mill Engr., 847 Main St.

Grohmann, Carl L., Ch. Engr., Pratt & Whitney Co.

CONNECTICUT, Hartford (Continued).

Hanson, B. M. W., V. P., Pratt & Whitney Co.

Hare, Charles Robbins, Supt., The Arrow Elec. Co., 103 Hawthorne St.

Honiss, William Henry, Mech. Engr. and Solicitor of Patents, 60 Prospect St.

Howard, Charles P., Pres., James L. Howard & Co.

Hunter, J. S., 15 Washington St.

Jacobs, Arthur I., Pres., Treas. and Genl. Mgr., The Jacobs Mfg. Co.

Jacobs, Ward S., Treas., The Walton Co.

Jeter, Sherwood F., Supv. Insp., Hartford Steam Boiler Insp. & Ins. Co.

Knox, Clarence M. (Junior), Mech. Engr., 281 Wethersfield Ave.

London, William James Albert, Ch. Engr., Terry Steam Turbine Co.

Loomis, Burdett, Jr., 843 Prospect Ave.

Lorenz, Wm. A., Mech. Engr. and Solicitor of Patents, 60 Prospect St.

Luther, Flavel Sweeten, Pres., Trinity College.

Lyman, Dwight E., Supt., Asa S. Cook Co., 80 Huyshope Ave.

Merritt, Joseph, Cons. and Constr. Mech. Engr., 60 Prospect St.

Newton, Charles E., Treas., Jewell Belting Co., 53 Trumbull St.

Peard, James J., 33 Allen Pl.

Pickop, George Brooks, Mech. Engr., 793 Albany Ave.

Plaine, George Hunter, Supt., Terry Steam Turbine Co.

Pope, Harold L., Engr. and Factory Mgr., West Wks., The Pope Mfg. Co.

Quint, Alanson D., Mgr., Turret Drill Co., 12 Wells St.

Rice, Charles De Los, Genl. Supt., Underwood Typewriter Co., 581 Capitol Ave.

Risteen, Allan Douglas, Engr. Engrg. and Inspg. Div., Travelers Ins. Co. and Travelers Indemnity Co.

Rossberg, Chas. Andrew (Junior), Ch. Draftsman, Veeder Mfg. Co.

Sachs, Joseph, V. P. and Genl. Mgr., The Sachs Laboratories, Inc., 103-105 Allyn St.

Smith, Percy Charles (Junior), Engr. and Genl. Sales Mgr., Roto Co.

Snow, Norman Leslie (Junior), The Terry Steam Turbine Co.

Souther, Henry, Pres., Henry Souther Engrg. Co., 11 Laurel St.

Spencer, Ira H., Pres., The Spencer Turbine Cleaner Co., V. P., Organ Power Co., 618 Capitol Ave.

Sponsel, Charles W., Mech. Engr., 904 Main St.

Thompson, Frederick Samuel, Ch. Engr., Hartford Mch. Screw Co.

Townsend, Harry P. (Junior), Secy. and Genl. Mgr., The H. P. Townsend Mfg. Co., 10 Hoadley Pl.

Trowbridge, Amasa, Pres. and Genl. Mgr., The Rhodes Mfg. Co., 32 Union Pl.

Veeder, Curtis H., Pres., Veeder Mfg. Co., 28 Sargeant St.

Whitney, Amos, Secy. and Treas., The Whitney Mfg. Co.

CONNECTICUT, Hartford (Continued).

Whitney, Clarence Edgar, Pres. and Genl. Mgr., The Whitney Mfg. Co.

Meriden.—Horne, George A., Supt., Meriden Fire Arms Co.

Rowntree, Frank Lambert, Mfg. Supt., Foster, Merriam & Co.

Middletown.—Lindquist, Eric Adolf (Junior).

Naugatuck.—Baker, John C. W., M. M., Rubber Regenerating Co.
Guise, Hiram Barnes, Ch. Cons. Engr., Rubber Regenerating Co.

Payne, Sheldon F., M. M., Goodyear's M. R. Shoe Co.

New Britain.—Brown, Robt. S., Secy., New Britain Mch. Co.

Burgess, Chas. Monroe, 358 W. Main St.

Carter, Edgar Robert, Jr. (Junior), Engr., Fafnir Bearing Co.

Corbin, Albert F., Pres., Union Mfg. Co.

Fletcher, James R., Genl. Supt., P. & F. Corbin Mfg Co.

Fox, Rudolph H. (Junior), Exper. Engr., Fafnir Bearing Co.

Hart, Howard S., Pres., Hart & Cooley Co.

Jones, Horace Kimball, Mech. Supt., Corbin Screw Div., Am. Hardware Corp.

Norris, Charles Henry, Mech. Engr., Asst. to Second V. P., Am. Hardware Corp.

Pelton, Ernest Williams, Supt. of Power, The Stanley Wks.

Schubert, Arno, Ch. Draftsman, The New Britain Mch. Co.

Stanley, Altx W., Pres., Stanley Rule & Level Co.

Stone, Elmer B. (Junior), Wks. Mgr., Corbin Cabinet Lock Co.

Trinder, Frederick James, Supt., State Trade Education.

Voight, Henry Gustave, Asst. Genl. Supt., Russell & Erwin Mfg. Co.

New Haven.—Barnum, Geo. S., V. P., The Bigelow Co.

Barnum, Starr H., 2d (Junior), Secy., The Bigelow Co.

Bigelow, Frank L., Pres., The Bigelow Co.

Boyer, Frederic Quintard, Instr. Mech. Engrg., S. S. S., Yale Univ., 275 Mason Lab.

Breckenridge, L. P., Prof. Mech. Engrg., Yale Univ., Mason Lab.

Cooley, Erwin Stratton, Supvr. of Power Plants, N. Y., N. H. & H. R. R.

Donaldson, Harold R. (Junior), Draftsman, 115 Wall St.; also, Buffalo, N. Y.

Du Bois, A. Jay, Prof. Civ. Engrg., S. S. S., Yale Univ.

Gerner, George Charles (Junior), Instr. Testing Materials, S. S. S., Yale Univ., 274 Mason Lab.

Glynn, Frank Lawrence, Dir. Trade Education, Public Schs.

Greist, Percy Raymond, Pres. and Genl. Mgr., The Greist Mfg. Co.

Henney, John, Duncan Hall.

Jappe, Kurt W. (Junior), Sargent & Co.

Knous, Franklin F., 265 Bassett St.

Langstroth, Clifford B. (Junior), Mech. Engr., Winchester Repeating Arms Co., 37 Lake Pl.; also, Rahway, N. J.

Lockwood, Edwin H., Asst. Prof. Mech. Engrg., S. S. S., Yale Univ.

MacArthur, Robert, Jr., Supt. M. P., Sargent & Co.

Mackintosh, Frederick L., Supt. of Non-Production Depts., Winchester Repeating Arms Co.

CONNECTICUT, New Haven (Continued).

- Norcross, J. Arnold, Secy. and Treas., New Haven Gas Light Co.
- Pangburn, Dwight Boyce (Junior), Instr., S. S. S., Yale Univ., 36 N. Sheffield Hall.
- Penney, Rupert L. (Junior), Testing Engr., Winchester Repeating Arms Co.
- Porter, Charles Talbot (Junior), Instr. Mech. Engrg., Yale Univ.
- Prentice, Donald Bishop (Junior), Asst. Instr. Mech. Engrg., S. S. S., Yale Univ.
- Pugsley, Edwin (Junior), Winchester Repeating Arms Co.
- Richards, Charles B., Prof. Emeritus, Mech. Engrg., Yale Univ.
- Roe, Joseph W., Asst. Prof., S. S. S., Yale Univ.
- Sargent, Henry Bradford, Sargent & Co.
- Scott, Charles Felton, Prof. Elec. Engrg., S. S. S., Yale Univ.
- Seward, Herbert Lee (Junior), Instr. Mech. Engrg., S. S. S., Yale Univ.
- Sorrow, Walter John, Foreman Gage Dept., Winchester Repeating Arms Co.
- Stone, J. Wheaton, Treas. and Mgr., The East. Mchy. Co.
- Wildin, George W., Mech. Supt., N. Y., N. H. & H. R. R.
- New London.**—McCulloch, Alexander, New London Ship & Eng. Co.
- Mayo, John B., Checker Drafting Dept., New London Ship & Eng. Co.
- Rearick, Chas. B., Pres. and Mgr., Conn. Turbine Mfg. Co., 81 Hamilton St.
- Talbot, Harry John, Sales and Mech. Engr., The Inter-State Mch. Co.
- Whiton, Lucius E., Mgr. and Mech. Engr., D. E. Whiton Mch. Co., 190 Howard St.
- Norwalk.**—McElroy, Joseph A., Pres., Empire Constr. Co.
- Norwich.**—Martin, Edward J. (Junior), Asst. Supt., Hopkins & Allen Arms Co.
- Plainville.**—Newton, Charles Hollister, Secy. and Treas., The Osborne & Stephenson Mfg. Co.
- Plantsville.**—Lane, Almeron M.
- Portland.**—Hall, Stephen S., Secy., The Pickering Governor Co.
- Pascall, Richard H., Pres., The Pickering Governor Co.
- Sound Beach.**—McMurtry, Alden Lothrop, Cons. Engr.
- South Manchester.**—Miller, George H., Supv. Engr., Cheney Bros.
- South Norwalk.**—Hill, Ebenezer, Genl. Mgr., Norwalk Iron Wks. Co.
- Hill, Ebenezer, Jr., Secy. and Supt., Norwalk Iron Wks. Co.
- Jennings, Irving Callender (Junior), Nash Engrg. Co., 40 Water St.
- Mathews, William Edwin, Supvr., Inspec. and Tests, Norwalk Iron Wks. Co.
- Nash, Lewis H., Pres., Nash Engrg. Co.; also, Ch. Engr., Natl. Meter Co., 84 Chambers St., New York, N. Y.
- Stamford.**—Arnold, John A. (Junior), Draftsman, Remington Oil Eng. Co.
- Borie, Renshaw, Elec. Engr., Yale & Towne Mfg. Co.
- Emery, Albert H., Civ. and Mech. Engr., 788 Main St.
- Horne, Joseph Alfred, Genl. Supt., Yale & Towne Mfg. Co.
- Hubbell, Charles W., Lock Box 655.

CONNECTICUT, Stamford (Continued).

- Kent, Edward R. (Junior), Yale & Towne Mfg. Co.
 Leland, George B., Supt., The Stamford Gas & Elec. Co.,
 11-17 Bank St.
 Lewis, Rollin C., Asst. Supt. Bank Lock Dept., Yale & Towne
 Mfg. Co.
 McBride, James, Ch. Engr., Stamford Mfg. Co.
 Regan, Joseph Charles, Asst. Genl. Supt., Yale & Towne Mfg.
 Co.
 Taylor, Warren H., Supt. Bank Lock Dept., Yale & Towne
 Mfg. Co.
 Towne, Henry R., Pres., Yale & Towne Mfg. Co.; also, New
 York, N. Y.
 Weber, Geo. A., 71 Courtland Ave.
Thompsonville.—Upson, Lyman A., Treas., Upson-Martin Co.
Torrington.—Alvord, C. H., V. P. and Genl. Mgr., The Hendey
 Mch. Co.
Waterbury.—Alden, John Douglas, Gas Engr., Asst. Supt., The
 United Gas Improvement Co., 83 Center St.
 Alexander, Louis Albion, Genl. Store Keeper, Genl. Supt.'s Of-
 fice, Am. Brass Co.
 Bristol, Howard Hall (Junior), Charge Exper. Dept., The
 Bristol Co.
 Bristol, Wm. H., Pres., The Bristol Co.
 Campbell, Andrew C., Cons. Engr., Pres. and Mgr., Andrew C.
 Campbell, Inc., 42 State St.
 Castle, John S. P. (Junior), Ch. Engr., Benedict and Burham
 Branch, Am. Brass Co.
 de Lancey, Darragh, 52 Pine St.
 Dixon, Charles Francis, Engr., N. E. Engrg. Co.; also, Brook-
 lyn, N. Y.
 Doolittle, Warren P. (Junior), Designing Engr., The Water-
 bury Mfg. Co.
 Goss, Edward O., Genl. Mgr., Scovill Mfg. Co.
 Isbell, Howard L. (Junior), Asst. Ch. Engr., Am. Brass Co.
 Johnson, Edward Willis, 70 Chestnut Ave.
 Koester, Herman, Mech. Supt., The Bristol Co.
 Leggett, George R., Asst. to Genl. Supt., Scovill Mfg. Co.
 Martus, Martin Lorenz, Mech. Engr., Mgr. and Secy., The
 Waterbury Battery Co., 1036 S. Main St.
 Pancoast, Fred Lincoln, Efficiency Engr., 48 Columbia Blvd.
 Putnam, J. Russell, Mech. Engr., Waterbury Clock Co.
 Rowbottom, George, Pres., Rowbottom Mch. Co.
 Sanderson, E. S., care of Scovill Mfg. Co.
 Sheppard, John Leefe, Jr., Constr. Supt., The N. E. Engrg.
 Co., 31 W. Main St.; also, Newark, O.
 Summey, David Long, 169 Buckingham St.
 Thompson, Hugh L.
West Hartford.—Neillson, Frederick C., P. O. Box 472.
 Wolcott, Henry A., Mech. and Civ. Engr.
Willimantic.—Millett, Kenneth Ballard, Local Mech. Engr.,
 Willimantic Mills of The Am. Thread Co.
Windsor Locks.—Horton, S. Ellsworth, Pres. and Genl. Mgr., E.
 Horton & Son Co.

DELAWARE

- Edge Moor.**—Girvin, Chas. J., Supt., Edge Moor Iron Co.
 Menzin, Abraham Louis, Mech. Engr., Edge Moor Iron Co.

DELAWARE (Continued).

Henry Clay P. O.—Kaighn, Herbert Eugene, Ballistic Engr. Exper. Sta., E. I. du Pont de Nemours Powder Co.

Newport.—Krebs, A. Sonnin, The Krebs Pigment & Chem. Co.

Wilmington.—Betts, Alfred, 906 Adams St.

Bird, John B., Joseph Bancroft & Sons Co.

Darling, Philip G., Ch. Engr. Exper. Sta., E. I. du Pont de Nemours Powder Co.

De Cazenove, Louis A., Jr., Mech. Engr. Engrg. Dept., E. I. du Pont de Nemours Powder Co.

du Pont, Coleman, Pres., E. I. du Pont de Nemours Powder Co., 964 du Pont Bldg.

Forgy, J. Emonds, Ch. Engr., Chas. Warner Co., du Pont Bldg.

Hazard, Vincent G., Designer of Paper Mch., The Pusey & Jones Co.

Moreton, George Wm., Genl. Supt., Betts Mch. Co.

Moxham, Egbert, Asst. Mgr. Development Dept., E. I. du Pont de Nemours Co.

Parsons, George K., V. P., Am. Vulcanized Fibre Co.

Pusey, Charles W., Inspc. Engr., The Pusey & Jones Co.

Smith, Robert W., V. P., Hilles & Jones Co.

Spruance, Wm. C., Jr., du Pont Bldg.

Tallman, Frank G., Dir. of Purchases, E. I. du Pont de Nemours Powder Co., du Pont Bldg.

Van Trump, Charles R., 305 W. 8th St.

Warner, Irving (Junior), Plant Mgr., Charles Warner Co.

Wood, Ernest Henry, Mech. Engr., East. Malleable Iron Co.

DISTRICT OF COLUMBIA

Washington.—Bixby, Genl. William H., U. S. Engr., 735 Southern Bldg.

Burgoon, Charles E., Isthmian Canal Com.

Carlsson, Carl A. V., Ordnance Engr., Bureau of Ordnance, Navy Dept.

Carty, Roy Franklin (Junior), Mech. Engr., Div. of Loco. Boiler Inspc., Interstate Commerce Com.

Conti, Angelo, Ch. Computing Draftsman, Bureau of Steam Engrg., Navy Dept., Rm. 389.

Doying, William Albert E., Inspc. Engr., Isthmian Canal Com., Mills Bldg. Annex.

Fleming, Robert F. (Junior), Sterrett & Fleming, 707 Evans Bldg.

Gillis, H. A., Mech. Engr., Home Life Bldg.

Hardesty, Frederick Sawyer, Cons. Engr., Home Life Bldg.

Herschel, Winslow Hobart, Asst. Physicist, Bureau of Standards.

Hersey, Mayo Dyer (Junior), Asst. Physicist, U. S. Bureau of Standards; also, Cambridge, Mass.

Hollerith, Herman, 1054 31st St.

Holmes, Joseph Austin, Dir., Bureau of Mines.

Holmes, Urban Tigner, Commander, U. S. N., Bureau of Steam Engrg., Navy Dept.

Hopkins, N. Monroe, Elec. and Mech. Engr., Consultant in Pat. Cases, 2128 Bancroft Pl.

Jakobsson, Herman, Cons. Engr. and Registered Pat. Atty., Knight Bros., 724 Ninth St., N. W.

DISTRICT OF COLUMBIA, Washington (Continued).

- Johnson, Arthur E., Designer, Ordnance Office, War Dept.
 Keyes, Frederic Hale, Mechlin & Starr, Arch. Engrs., Wilkins Bldg.
 King, Frank B., Cons. Marine Engr. and Naval Arch., 1442 Rhode Island Ave.
 Knight, Hervey S., Pat. Lawyer and Expt., 726 Ninth St., N. W.
 Lawton, James Edmund, Ch. Insp., Isthmian Canal Com.
 Metz, Walter R., Supt. of Bldgs., Govt. Ptg. Office.
 Morton, Geo. L., Prin. Examiner, Instruments of Precision, Rm. 264, U. S. Pat. Office.
 Mosher, William Earl (Junior), Field Investigations in Pomology, Bureau of Plant Industry, Dept. of Agriculture; also, Mechanicville, N. Y.
 Muller, Richard Otto, Cons. Engr. and Engr. in Charge, Am. Turbine Eng. Co., Star Bldg.
 Norton, Harold P., Capt., U. S. N., Member Naval Examining and Retiring Bds., Navy Yard.
 Peel, Fred P. (Junior), 3627 Eleventh St.
 Powell, John Edgar, Cons. Engr., 307 Union Trust Bldg.
 Price, Henry M., Mech. Engr., The Lamson Co., 423 Colorado Bldg.
 Raynal, Alfred H., Mech. Engr., Bureau of Steam Engrg., Navy Dept.
 Ridgely, William Barret, 1908 Q St., N. W.; also, New York, N. Y.
 Robinson, Garland P., Asst. Ch. Insp., Locomotive Boilers, Interstate Commerce Com.
 Rupp, M. E., Engr. Insp., Isthmian Canal Com.; also, New York, N. Y.
 Schoenborn, W. E., Solicitor of Patents, Expt. in Pat. Causes, McGill Bldg., 908-912 G St., N. W.
 Shepard, Louis A., Munsey Bldg., and 2138 California Ave., N. W.
 Simpson, George R., Prin. Examiner in Charge Ry. and Rolling Stock Div., U. S. Pat. Office, Rm. 304.
 Smith, Arthur D., Ch. Engr., Washington Steel & Ordnance Co.
 Stratton, Samuel Wesley, Dir. Natl. Bureau of Standards, Dept. of Commerce.
 Tait, Godfrey M. S., Cons. Engr., 1413 G St., N. W.
 Thomas, Glegge (Junior), B. F. Sturtevant Co., 1006 Loan and Trust Bldg.
 Thompson, Erwin W., Commer. Agt., Bureau of Foreign and Domestic Commerce.
 Upton, William Bayly, Cons. Engr., Washington Loan & Trust Bldg., 902 F St., N. W.
 Wheeler, Chas. Van Cise, Supt., Washington Steel & Ordnance Co., P. O. Box 812.
 Wheeler, Earl (Junior), Genl. Mgr., Elec. Speedometer Co., Evans Bldg.

FLORIDA

- Bartow.**—McLeod, Adolphus A., Engr. and Supt., Fla. Phosphate Min. Corp.
Jacksonville.—Cherry, William Alexander, Jr. (Junior), Engr., The Fla. Abstract & Title Security Co., 139 E. Forsyth St.

FLORIDA, Jacksonville (Continued).

Day, Charles Iven (Junior), Genl. Supt., So. Utilities Co., 916 Heard Bldg.

GEORGIA

Athens.—Jackson, Percy (Junior), Brick Mfr., So. Brick Co., Box 242.

Atlanta.—Beach, Harold K. (Junior), Lockwood, Greene & Co., 616 Rhodes Bldg.

Compton, Robert William, So. Rep., Hooven, Owens, Rent-schler Co., 1528 Candler Bldg.

Coon, J. S., Prof. Mech. Engrg., Supt. of Shops, Sch. of Tech.

Dallis, Park Andrew, Mill Arch. and Engr., Park A. Dallis Co., 913 Candler Bldg.

Davidson, Archer, Dist. Engr., Westinghouse Mch. Co., 1326 Candler Bldg.

Hillyer, George, Jr., Cons. Engr., 568 W. Peachtree St.

Hutchinson, Arthur H., Sales Engr., Frick Co., 406-407 Atlanta Natl. Bank Bldg.

Neely, Frank H. (Junior), Industrial Engr., 70 Madison Ave.

Nesbit, Joseph Newton Gray, Prof. Exper. Engrg., Ga. Sch. of Tech.

Poole, Cecil P., Cons. Engr., P. O. Box 1166.

Scott, Earl Francis, Acting Dist. Mgr., Griscom-Russell Co., 115 McKenzle Bldg.

Snyder, William R. (Junior), Pur. Agt., Fulton Bag & Cotton Mills.

Calhoun.—Wright, Calvin Shelor (Junior).

Macon.—Neely, Fred. L. (Junior), Central Ga. Power Co.

Porter, John A., Genl. Supt., Bibb Mfg. Co.

Newnan.—Cole, Frank B., Ch. Engr., R. & D. Cole Mfg. Co.

Savannah.—Gaines, Frederic F., Supt., M. P., Central of Ga. R. R.

Lamar, Philip Rucker, The So. Cotton Oil Co., Savannah Bank & Trust Co. Bldg.

Valdosta.—Eager, William G. (Junior), Second V. P., Valdosta Ltg. Co.

HAWAII

Ewa.—Hind, R. Renton (Junior), Ch. Engr., Ewa Plantation Co.

Hakalau.—Kennedy, James Edward, Ch. Engr., Hakalau Plantation Co.

Honolulu.—Dyer, William John, Asst. Mgr., Honolulu Iron Wks. Co.

Gartley, Alonzo, Cons. Engr., C. Brewer & Co., Ltd.

Hall, William Garvie, Mgr., Catton, Nelll & Co., Ltd., P. O. Box 324.

Hedemann, Christian J., Genl. Mgr., Honolulu Iron Wks. Co.

Kopke, Ernst, Mech. and Sugarhouse Engr., Honolulu Iron Wks. Co.

Sheedy, Joseph Edward, Genl. Supt., Inter Island Steam Navigation Co.

Young, John M., Dean of Engrg., College of Hawaii, and Cons. Engr.

Pahala, Kau.—Ogg, James, Ch. Engr., Hawaiian Agricultural Co.

IDAHO

Moscow.—Hutton, Sol Elwood, Cons. Engr., 115 Van Buren St.

Orofino.—Hassan, Robert D., Mech. Engr., Orofino Portland Cement Co.; also, Spokane, Wash.

ILLINOIS

- Alton.**—Clyne, Robert G., Mgr., The West. Cartridge Co.
Duncan, William Millen, V. P., Ill. Stoker Co., Genl. Mgr.,
Duncan Fdy. Co., Secy. and Treas., Am. Coal Washing Co.
- Anna.**—Gardner, Thomas M., Cons. Engr.
- Argo, Cook Co.**—Jefferies, Frederick Lester, Supt., Corn Products Refining Co.
- Aurora.**—McClatchey, A. F., 132 N. 4th St.
Piersen, David Barnard, V. P., Stephens-Adamson Mfg. Co.
- Bradley.**—King, Matthew Leander, Mgr., David Bradley Mfg.
Wks. of Sears Roebuck & Co.
- Cairo.**—Bishop, Frank, Supt., Singer Mfg. Co.
- Cartersville.**—Richart, Fred W., Dist. Supt., Central Ill. Public Service Co.
- Chicago.**—Abbott, William L., Ch. Operating Engr., Commonwealth Edison Co., 120 W. Adams St.
Adams, Harry H., Supt. of Equip., Chicago Rys. Co., 3901 West End Ave.
Akerlind, G. A., Insp. Engr. Bridge Dept., City of Chicago, 619-620 City Hall Sq. Bldg.
Albright, H. Fleetwood, Genl. Supt., West. Elec. Co., Hawthorne Sta.
Allen, Henry Asa, Cons. Engr., City of Chicago, Rm. 403 City Hall.
Ames, Joseph H., Ch. Engr., Am. Car & Fdy. Co., 414 Ry. Exch.
Anderson, Emanuel, Sargent & Lundy.
Bacon, Charles James, Steam Engr., Ill. Steel Co., South Chicago.
Baehr, William Alfred, Cons. Engr., Peoples Gas Bldg.
Bailey, Alex. D. (Junior), Asst. Ch. Engr., Stas. 2 and 3, Commonwealth Edison Co.
Baker, Fred L., Robins Conveying Belt Co., 1070 Old Colony Bldg.
Baldwin, C. Kemble, West. Mgr., Robins Conveying Belt Co., 1070 Old Colony Bldg.
Balzer, Fritz, Mech. Engr. Charge of Drafting Dept., Troy Laundry Mchy. Co., Ltd., La Salle and 23d Sts.
Bancker, James William, Asst. Genl. Supt., West. Elec. Co., Hawthorne Sta.
Barbieri, Cesare, Cons. Mech. Engr., Old Colony Bldg., Dearborn and Van Buren Sts.
Barnes, Charles B., Mech. Engr., West. Elec. Co., Hawthorne Sta.
Barnett, Carl Price, Ch. Engr. Mech. and Constr. Depts., Sulzberger & Sons Co., 41st and Ashland Ave.
Bates, Adelmer M., Pres., Bates Valve Bag Co., 11-17 S. Desplaines St.
Baumgartner, Charles Greene, Designing Engr. Mech. Engrg. Dept., Am. Bridge Co., Rm. 1325, 72 W. Adams St.
Bean, William Lloyd, Mech. Rep., Jacobs-Shupert U. S. Fire-box Co., 339 Ry. Exch.
Bear, Oliver L., Sales Engr. and Mgr., Benj. F. Kelley & Son, Inc. of New York, N. Y., Ry. Exch. Bldg.
Beck, Charles Edgar (Junior), Oil Eng. Sales Mgr., De La Vergne Mch. Co., 417 S. Dearborn St.

ILLINOIS, Chicago (Continued).

- Bentley, Harry Thomas, Supt. M. P. and Mch'y., Chicago & Northwestern Ry.
- Berg, Christian P., Engr., Drake & Berg, Inc., Rm. 1126, 72 W. Adams St.; also, Philadelphia, Pa.
- Berge, George Hewes, Sales Mgr., Ill. Stoker Co., 820 Marquette Bldg.
- Best, William John, West. Mgr., Wheeler Condenser & Engrg. Co., 1736 First Natl. Bank Bldg.
- Bibbins, James Rowland, Engr., associated with Bion J. Arnold, 105 S. La Salle St.
- Bird, Paul P., Member of Firm, Norton & Bird, Engrs., 72 W. Adams St.
- Birdsey, Charles Robt., Ch. Engr., U. S. Gypsum Co., 200 Monroe St.
- Black, Edward S., Edgar Allen Am. Manganese Steel Co.
- Blauvelt, Albert, Assoc. Mgr., West. Factory Ins. Asso., Ins. Exch. Bldg.
- Bogardus, Henry A., Pres. and Treas., Bogardus Co., 224-230 W. Huron St.
- Bolgiano, J. Ralph (Junior), Taylor-Wharton Iron & Steel Co., 1005 Fort Dearborn Bldg.
- Bowen, Harrison Seba, Mech. Engr., Robert W. Hunt & Co., 2200 Ins. Exch. Bldg.
- Brady, Joseph Benjamin (Junior), Jos. T. Ryerson & Son, 16th and Rockwell Sts.
- Brill, Geo. M., 1135 Marquette Bldg.
- Bronaugh, Will Logan, Secy. and Treas., Iroquois Engrg. Co., 1507 Fisher Bldg.
- Brydon, Herbert Boyd, Mech. Engr., H. M. Byllesby & Co.
- Buker, Henry, West. Rep., Brown & Sharpe Mfg. Co., 626-630 Washington Blvd.
- Buss, William Laing, Mgr. Chicago Office, Pittsburgh Valve, Fdy. & Constr. Co., 1215 Marquette Bldg.
- Byllesby, H. M., Pres., H. M. Byllesby & Co., Ins. Exch. Bldg.
- Cadwallader, Harry, Jr., Efficiency Engr., 106 Loomis St.
- Carter, Henry W., Mech. Expt., 635 Monadnock Blk.
- Case, G. Harry, Ch. Mech. Engr., Jos. T. Ryerson & Son.
- Case, Milo McClelland (Junior), Mech. Engr., 517 Monadnock Blk.
- Casteels, Aime (Junior), 508 S. Lawndale Ave.
- Chalmers, William J., Dir., Chalmers & Williams, 72 W. Adams St., and Fraser & Chalmers, Ltd. of London.
- Chamberlain, Paul Mellen, Cons. Engr., Chamberlain & Howell, Engrs., 1719 Marquette Bldg.
- Charter, James Adams, Cons. and Designing Engr., 1443 E. 65th Pl.
- Cheetham, Joseph H. (Junior), Mech. Expt. Dept., Crane Co., 836 S. Michigan Ave.
- Christensen, Chas. C., Estimating Engr., Allis-Chalmers Co.
- Christensen, Otto R., Pres., The Christensen Engrg. Co.
- Clarke, Leon L., Elec. and Mech. Engr., Rm. 10, 106 N. La Salle St.
- Clifford, Oliver Chas., Dept. of Elec. Engrg., Armour Inst. of Tech., 33d and Armour Aves.
- Craighead, Magruder (Junior), Sales Dept., Otis Elev. Co., 600 W. Jackson Blvd.

ILLINOIS, Chicago (Continued).

- Cressler, Alfred David, Pres. and Cons. Engr., The Kerr Murray Co., 122 S. Michigan Ave.
Cressler, George Holloway (Junior), The Kerr Murray Co., Peoples Gas Bldg.
Cressler, Kerr Murray (Junior), Treas. and Engr., The Kerr Murray Co., 122 S. Michigan Ave.
Crocker, Arthur George (Junior), Engrg. Dept., The Westinghouse Mch. Co., 39 S. La Salle St.
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DePuy, C. E., Prof. Mch. Constr., Lewis Inst.
Deverell, Harry, Treas., Macdonald Engrg. Co., 551 Monadnock Bldg.
DeWolfe, Edward Charles, Member of Firm, Russell-DeWolfe Co., 537 S. Dearborn St.
Dillman, Oscar David (Junior), Asst. Chicago Mgr., Hooven Owens, Rentschler Co., 1127 Marquette Bldg.
Dingee, W. W., Ret. Mech. Engr., 5811 Dorchester Ave.
Dirks, Henry B. (Junior), 2459 Montrose Ave.
Douglas, Courtney Carlos, Dist. Mgr. Turbine Sales, Genl. Elec. Co., 1023 Monadnock Bldg.
Dreffein, Henry A., Pres., Flinn & Dreffein Co., 1403 Manhattan Bldg.
Dull, Raymond W., Pres., The Raymond W. Dull Co., 718 Chamber of Commerce Bldg.
Easthope, Joseph, M. M., Ill. Steel Co.'s South Wks.
Eilersgaard, Asger, Engr. Loco. Crane Dept., Link-Belt Co., 39th St. and Stewart Ave.
Ellicott, Edw. Beach, Elec. Engr., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg.
Elliott, W. E., Suptg. Engr., Goodrich Transit Co.
Ellison, Lewis Martin, Steam Expt., Designer and Mfr., 6238 Princeton Ave.
Elmes, Chas. W., Pres., Chas. F. Elmes Engrg. Wks., Morgan and Fulton Sts.
Engel, Philip N., V. P., Internatl. Filter Co., 1702-1704 Wabash Ave.
Ericson, John Ernst, City Engr., Member Harbor and Subway Com., City of Chicago. 402 City Hall.
Ewen, John Meiggs, Cons. Engr., John M. Ewen Co., The Rookery.
Fallon, John (Junior), Cons. Engr., Union Stock Yards.
Feiker, Fred Morris, Editorial Dir., A. W. Shaw Co., 5 N. Wabash Ave.
Fergus, William L., W. L. Fergus & Co., 1509 Fisher Bldg.
Fitch, Alfred Lyon, Mech. Engr., Electro-Mech. Engrg. Co., Peoples Gas Bldg.
Fitch, Claude E., Cons. Mech. Engr., V. P., Allen Engrg. Co., 1233 First Natl. Bank Bldg.
Flinn, Melville Stone, Secy. and Treas., Flinn & Dreffein Co., 1403 Manhattan Bldg.
Forsyth, Robert, Cons. Engr., 1159 Rookery Bldg.
Fraser, Norman D., Pres., Chicago Portland Cement Co., 30 N. La Salle St.
Frederick, Floyd W., The Underwriters' Laboratories, Inc., 207 E Ohio St.

ILLINOIS, Chicago (Continued).

- Frey, Heinrich Josef Karl, Third V. P., H. Koppers Co., 5 S. Wabash Ave.
- Frost, Harwood, Pres., Brown Portable Elev. Co., 10 S. La Salle St.
- Gardner, Horace C., Member of Firm, Gardner & Lindberg, Marquette Bldg.
- Garland, Claude Mallory, Mech. Engr., Woodmansee & Davidson, 1048 First Natl. Bank Bldg.
- Gates, Philetus W., Pres., Hanna Engrg. Wks., 2059 Elston Ave.
- Gebhardt, George F., Prof. Mech. Engrg., Armour Inst. of Tech.
- Getts, Frank E., Dist. Sales Mgr., Alberger Pump & Condenser Co., Rm. 1401, 115 W. Monroe St.
- Gibson, Charles D., Sales Mgr., The Hamilton Mch. Tool Co., 547 Washington Blvd.
- Gifford, Robt. L., Pres., Ill. Engrg. Co., Monadnock Bldg.; also, Pasadena, Cal.
- Gillette, Halbert Powers, Editor-in-Chief, Engineering and Contracting, 608 S. Dearborn St.; also, Germantown, Pa.
- Gilman, Francis L., Asst. Genl. Supt. West. Elec. Co., Hawthorne Sta.
- Goetz, Fred W., V. P., Goetz Co., Clybourn Ave. and Willow St.
- Gottfried, Carl M., Genl. Mgr. and Secy., Gottfried Brewing Co., 337 Alexander St.
- Green, Wm. O., Member of Firm, Ogden, Sheldon & Co., 192 N. Clark St.
- Hagar, Edw. McKim, Pres., Universal Portland Cement Co., 72 W. Adams St.
- Hall, Harris Forster, Secy. and Treas., Safety Equip. Mfg. Co. Fisher Bldg.
- Hamilton, Alex. K., Pres., M. H. Treadwell Co. of Ill., 530 Commer. Natl. Bank Bldg.
- Harper, John, Ch. Draftsman, West. Elec. Co., Hawthorne Sta.
- Harrington, Joseph, Advisory Engr., 924 Consumers Bldg.
- Hawley, Wm. Parker, Asst. Prof. Charge Mech. Drawing, Lewis Inst.
- Hazard, William H., Mech. Engr. Exper. Dept., Internatl. Harvester Co., 1100 Harvester Bldg.
- Heaton, Herman C. (Junior), Mech. Engr., Sargent & Lundy, Ry. Exch.
- Hecht, Julius Lawrence, Public Service Co. of No. Ill., 137 S. La Salle St.
- Hendee, Edward Thomas, Secy. and Mgr. Mchy. and R. R. Depts., Joseph T. Ryerson & Son, V. P., Lennox Mch. Co.
- Hendry, W. Ferris, Tech. Supt., West. Elec. Co., Hawthorne Sta.
- Henes, Harry W. (Junior), Pres. and Treas., Henes Sales Corp., Rm. 603, 179 W. Washington St.
- Hill, Robert J., 5027 Madison Ave.
- Hobert, Stephen G., Cons. Engr., Gibbons Bldg., 20 E. Jackson Blvd.
- Houser, Arthur M., Mech. Expt., Crane Co.
- Houston, Harold A. (Junior), Inspr. Tonnage Ratings, Mech. Dept., Rock Island Lines, 935 La Salle Sta.

ILLINOIS, Chicago (Continued).

- Howarth, Jacob M. (Junior), Mech. Draftsman and Test Engr.,
U. S. Yards, Swift & Co.
- Howell, Horace Llewellyn, 1150 W. 65th St.
- Howell, Sylvester S., Cons. Engr., Chamberlain & Howell,
Engrs., 1719 Marquette Bldg.
- Hubbard, George Wallace, Asst. Mech. Engr., D. H. Burnham
& Co., 1417 Ry. Exch. Bldg.
- Hughes, Davydd C., Pres., Hughes-Wessling Co.
- Humes, W. Sharon (Junior), Sales Mgr., Genl. Ry. Supply
Co., 531 Marquette Bldg.
- Humphrey, Clifford Wayne, Cons. and Designing Engr., 818
Rookery Bldg.
- Hunt, Robert W., Robert W. Hunt & Co., 2200 Ins. Exch.
Bldg.
- Jackson, F. W., Dist. Mgr., Harrisburg Fdy. & Mch. Wks.,
424 New York Life Bldg.
- Jackson, Wm. B., D. C. & Wm. B. Jackson, Engrs., Harris
Trust Bldg., 111 W. Monroe St.
- Jacobs, Henry William, Pres., Orweld R. R. Service Co., 339
Ry. Exch.; also, Topeka, Kan.
- Johnson, Bradley S., Rep., The T. H. Symington Co., 623
Peoples Gas Bldg.
- Jones, John Lucien (Junior), Catalog Editor, Internatl. Har-
vester Co. of Am., 824 Eastwood Ave.
- Jones, W. Clyde (Junior), Lawyer, Genl. and Pat. Law, Rm.
1610, 105 W. Monroe St.; also New York, N. Y.
- Junkersfeld, Peter, Asst. to Second V. P., Commonwealth
Edison Co.
- Kell, Gustave B., Supt., Federal Sign System (Elec.), Lake
and Desplaines Sts.
- Kellogg, Harry F., Mgr. of Sales, Whipple Car Co., Rm. 624,
72 W. Adams St.
- Kerr, William Jones (Junior), Ch. Draftsman, Green Engrg.
Co., 28 E. Jackson St.
- Kimber, George Alfred, Mfr., 557-561 W. Jackson Blvd.
- Kimman, Martin T., Ch. Engr. and Supt., L. J. McCormick
Estate, 332 S. Michigan Ave.
- King, Chas. G. Y., Constr. Engr., Commonwealth Edison Co.
- Knoop, Theo. M. (Junior), Salesman, Epping-Carpenter Pump
Co., 728 Monadnock Bldg.
- Krehbiel, Frederick A., Pres., Krehbiel Co., 1712 Marquette
Bldg.
- Kuss, Robert Hayden, Sales Engr., Edge Moor Iron Co.,
1543 First Natl. Bank Bldg.
- Latta, Nisbet (Junior), Hotel Warner.
- Lavery, George L., 5453 Kenmore Ave.
- Lea, Henry I., Cons. Gas Engr., 1350, 1352, 1354 Peoples Gas
Bldg.
- Leonard, Arthur G., Pres., Union Stock Yard & Transit Co. of
Chicago, Union Stock Yards.
- Levey, John, Mech. Engr., Natl. Mch. Wks., Sheffield and
North Aves.
- Levin, Arvid Michael, Mech. Engr., 925 Monadnock Bldg.
- Lindberg, Fritz A., Gardner & Lindberg, Engrs., 1135 Mar-
quette Bldg.
- Lindquist, Edward W., Sales Engr., Allis-Chalmers Co.

ILLINOIS, Chicago (Continued).

- Lockett, Kenneth, V. P., Orr & Lockett Hardware Co., 1416 W. Randolph St.
- Lofts, David, Constr. Engr., Am. Steel Foundries.
- Lord, Charles Edward, Genl. Pat. Atty., Internatl. Harvester Co., 606 S. Michigan Ave.
- Lord, John E., Dist Mgr., Buckeye Eng. Co., 1249 Marquette Bldg.
- Louer, Lewis S., West. Mgr., F. W. Dodge Publishing Co., 842 Monadnock Bldg.
- Ludlow, Charles G., West. Mgr., Crosby Steam Gage & Valve Co., Great Lakes Bldg., 180 N. Market St.
- Luhr, Otto, Cons. Engr., 154 W. Randolph St.
- Lunger, Waldo G., Mgr. Furnace Dept., Am. Shop Equip. Co., 332 S. Michigan Ave.
- Lyman, James, Sargent & Lundy, cor. Jackson and Michigan Blvds.
- McIntosh, Robert L., McCord & Co., 1905 Peoples Gas Bldg.
- McKee, Walter Smart, V. P., Edgar Allen Am. Manganese Steel Co., 1850 McCormick Bldg.
- MacFarland, Helon Brooks, Engr. of Tests, Atchison, Topeka & Santa Fé Ry. System, 914 Ry. Exch.
- MacKenzie, Donald (Junior), Asst. Mgr. Constr. Dept., Union Stock Yards, Swift & Co.
- Macalister, Robert Norman, Mech. Engr., Robt. W. Hunt & Co., 2200 Ins. Exch.
- Magee, John (Junior), Adv., Curtis Publishing Co., Home Ins. Bldg.
- Marsh, Thomas Alfred, Ch. Engr., Green Engrg. Co., 28 E. Jackson St.
- Matchett, James C. (Junior), Sales Engr., Ill. Engrg. Co., 1205 Monadnock Bldg.
- Maury, Dabney Herndon, Cons. Engr., 1137-1138 Monadnock Bldg.
- May, Edwin Augustus, Asst. Mgr. Boller Dept., Am. Radiator Co.
- Meaker, Guy Larnard (Junior), Pres., The Meaker Co., Fulton and Elizabeth Sts.
- Meeker, Lawrence A. (Junior), Dressed Beef Dept., Armour & Co.
- Melcher, Charles W., Secy. and Genl. Mgr., Ingersoll-Rand Co. of Ill., 1507 Peoples Gas Bldg.
- Merrill, J. J., Ch. Engr., Corn Products Refining Co., 217 E. Illinois St.
- Mitchell, John Hennon, Mgr. of Sales West. Dist., Pressed Steel Car Co., West. Steel Car & Fdy. Co., 1470 Old Colony Bldg.
- Mohr, Louis, Secy. and Cons. Engr., John Mohr & Sons, 349 W. Illinois St.
- Monroe, Wm. S., Mech. Engr., Sargent & Lundy, 1720 Ry. Exch. Bldg.
- Montgomery, H. M., Mfr.'s Agt., 137 S. La Salle St.
- Moody, William O., Mech. Engr., Ill. Central R. R. Co., 135 E. 11th St.
- Moore, Ernest Ainsworth, Res. Mgr., A. M. Byers Co., 720 Fulton St.
- Morava, Wensel, Pres., Morava Constr. Co.

ILLINOIS, Chicago (Continued).

- Morehead, George Lawrence, Supt. of Constr., Link-Belt Co.
 Morse, Chas. H., Jr., Pres., Fairbanks-Morse Mfg. Co., 900 S. Wabash Ave.
 Moseley, Alexander Willett, Prof. Mech. Engrg., Lewis Inst.
 Murphy, John Z., Ch. Engr., Chicago Rys. Co., 700 Borland Bldg.
 Murray, Charles R., V. P., Treas. and Charge of Mfg., Barnhart Bros. & Spindler, 168-172 W. Monroe St.
 Naylor, Chas. Wm., Ch. Engr., Marshall Field & Co., 121 N. State St.
 Neiler, Samuel Graham, Cons. Mech. and Elec. Engr., and Pres., Neiler, Rich & Co., 1407-1411 Manhattan Bldg.
 Newton, Peter Augustin, Asst. Genl. Supt., Ill. Steel Co., South Wks., South Chicago.
 Nistle, George W., Secy, Ill. Engrg. Co., 315 Dearborn St.
 O'Neill, J. G., Contr. Engr., 304 Rookery Bldg.
 Ostermann, Rudolf M., Asst. to V. P., Loco. Superheater Co., 801 Peoples Gas Bldg.
 Otis, Spencer, V. P., Natl. Dump Car Co., 523 Ry. Exch.
 Parker, Francis Warner, Jr. (Junior), Pat. Atty., Member of Firm, Parker & Carter, 1410 Marquette Bldg.
 Patitz, Gerhardt J., Ch. Engr., Peter Schoenhofen Brewing Co., 526 W. 18th St.
 Paul, Charles Edward, Assoc. Prof. Mechanics, Armour Inst. of Tech.
 Pearson, Walter B., Pres., Stand. Screw Co., 81 E. Madison St.
 Peck, Staunton B., V. P., Link-Belt Co., 39th St. and Stewart Ave.
 Peebles, Thomas Armstrong, Partner, Harrington & Peebles, Advisory Engrs., 924 Consumers Bldg.
 Pennock, G. A. (Junior), European Plant Engr., West. Elec. Co., Hawthorne Sta., and Bell Tel. Mfg. Co., Antwerp, Belgium.
 Peterson, Franklin C., In Charge Engrs. and Draftsmen, West. Elec. Co., Hawthorne Sta.
 Piez, Charles, Pres. and Treas., Link-Belt Co., 39th St. and Stewart Ave.
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 Post, George Adams, Jr. (Junior), Sales Mgr., Stand. Coupler Co., 1005 Peoples Gas Bldg.
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 Reid, John Simpson, Sr., Asst. Prof. Mech. and Mch. Drawing, Armour Inst. of Tech.
 Replogle, Mark A., Sales Engr., The Lombard Governor Co., 1508 Fisher Bldg.; also, Akron, O.
 Reuter, Francis J. G., Tool Designer and Checker, West. Elec. Co.
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ILLINOIS, Chicago (Continued).

- Rich, Edward P., V. P. and Secy., Neller, Rich & Co., 1409 Manhattan Bldg.
- Righter, Addison A., 1252 First Natl. Bank Bldg.
- Robinson, J. Albert M. (Junior), Hyd. Engr., The Am. Well Wks., 454 First Natl. Bank Bldg.
- Rumely, William N., Pres., Rumely-Wachs Mchy. Co., 121 N. Jefferson St.
- Russell, Thomas N., Mech. Engr., Chicago-Cleveland Car Roofing Co., 427 Peoples Gas Bldg.
- Sargent, Frederick, Mech. Engr., Sargent & Lundy, Ry. Exch.
- Saxon, William, V. P. and Wks. Mgr., Miehle Ptg. Press & Mfg. Co.
- Sayers, William W., Engr., Link-Belt Co., 39th St. and Stewart Ave.
- Schaefer, John V. (Junior), V. P., Roberts & Schaefer Co., 2064 McCormick Bldg.
- Schenck, Charles (Junior), Supt., Elev. Supply & Repair Co., 561 Monroe St.
- Schlacks, W. J., McCord & Co., Peoples Gas Bldg.
- Sessions, Edson O., Cons. Engr., 140 S. Dearborn St.
- Seymour, Dudley S., Supt., Union Spec. Mch. Co., 300 W. Kinzie St.
- Shankland, E. C., Civ. Engr., E. C. & R. M. Shankland, 1106 Rookery Bldg.
- Sherman, Mason H., Mgr., By-Products Coke Corp., 1121 Marquette Bldg.
- Shults, Leo John (Junior), Mech. Draftsman, McCormick Wks., International Harvester Co.
- Simpson, Tracy Whittelsey (Junior), Supt., Hotpoint Elec. Htg. Co., 1001 W. Washington Blvd.
- Skinkle, Jay William, Engr. of Methods, West. Elec. Co., Hawthorne Sta.
- Smith, Horace Millikin, Supt. Federal Brass Wks. Dept., Liquid Carbonic Co., 3100 S. Kedzie Ave.
- Sorge, Adolph, Jr., Mech. Engr., 1537-1539 Monadnock Blk.; also, St. Joseph, Mich.
- Southworth, Martin O., Elec. Engr., Fairbanks, Morse & Co., 900 S. Wabash Ave.
- Spurling, Oliver C., Asst. Genl. Supt., West. Elec. Co., Hawthorne Sta.
- Stedman, James Edington, Engr., Bd. of Supvg. Engrs., Chicago Traction, 105 S. La Salle St.
- Steele, Walter D., V. P., Benjamin Elec. Mfg. Co., 120-128 S. Sangamon St.
- Stevens, Burt Dwight, Mech. Engr. Charge Designing Dept. and Pat. Matters, Miehle Ptg. Press & Mfg. Co., 14th and Robey Sts.
- Streeter, Lafayette P., Air Brake Engr., Ill. Central R. R.
- Swartwout, Everett W., Mgr. Chicago Office, Nordberg Mfg. Co., 1504 Fisher Bldg.
- Sweeney, John M., Mech. Engr., 1636 Monadnock Bldg.; also, Los Angeles, Cal.
- Swinton, David Russell (Junior), Mech. Engr., Tuthill Spring Co., 754 Polk St.
- Symonds, Nathaniel Gardiner (Junior), Sales Mgr. Chicago Dist., The Westinghouse Mch. Co., 1406 N. Y. Life Bldg.

ILLINOIS, Chicago (Continued).

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Thompson, O. C., Mech. Engr., Wirebounds Corp., 222 N. Washash Ave.

Thorp, George G., Second V. P., Ill. Steel Co., and V. P. Ind. Steel Co., Commer. Natl. Bank Bldg.

Throckmorton, George Kenneth (Junior), Mgr. Dept. of Engrg. and Drafting, Sears, Roebuck & Co.

Traver, Wilber H., Mgr. Min. and Contract Dept., Chicago Pneu. Tool Co., 1010 Fisher Bldg.

Troutman, Howard Ellsworth, Asst. Sales Mgr., Internatl. Steam Pump Co., 770 Old Colony Bldg.

Unger, John S., Cons. Engr., 3344 Broadway.

Van Zandt, Paul C., Mech. Engr., Allis-Chalmers Co., 2029 Peoples Gas Bldg.

Veness, Alfred E., Mgr., Hanna Engrg. Wks., 2059 Elston Ave.

Wait, Henry H., Cons. Mech. and Elec. Engr., Rm. 1201, 30 N. La Salle St.

Waite, Edward B., Dean, Am. Sch. of Corr., 58th St. and Drexel Ave.

Wallace, David A., Mech. Engr., West. Elec. Co., Hawthorne Sta.

Washington, Dixon E., Genl. Mgr. and Ch. Engr., Packers Architectural & Engrg Co., 1209 Manhattan Bldg.; also, 23 Rue de Rocroy, Paris, France.

Wells, Frederick Latimer, 101 S. Clinton St.

Wesselhoeft, Charles Dietrich, Pres., Wesselhoeft Co., 358 W. Madison St.

Wheeler, Clifton Harold, Jr., Chicago Dist. Mgr., C. H. Wheeler Mfg. Co., 1325 Marquette Bldg.

Wheeler, Frank Gideon (Junior), Mech. Wk., The Miehle Ptg. Press & Mfg. Co., 14th and Robey Sts.

Widdicombe, R. A., Engr., 5552 Lakewood Ave.

Wilson, Charles E., Asst. Sales Mgr., Internatl. Steam Pump Co., 820 Old Colony Bldg.

Winger, Stanley D. (Junior), Sales Engr., Green Engrg. Co., 28 E. Jackson St.

Wisner, George M., Ch. Engr., Chicago Drainage Canal, 900 S. Michigan Ave.

Woodman, George A., Mech. Engr., Spencer Otis Co., 747 Ry. Exch.

Woodmansee, Fay, Cons. Engr., Woodmansee & Davidson, 1048 First Natl. Bank Bldg.

Woods, Mercer Hugh (Junior), Mech. Engr., Bates Valve Bag Co.; also, Aylmer, Ont., Canada.

Woodward, Arthur Herbert, Pres., The Internatl. Register Co.

Yeomans, Lucien I., Industrial Engr., 516 Commer. Natl. Bank Bldg.

Zapp, Louis M. (Junior), A. L. Drum & Co., 624 Am. Trust Bldg.

Chicago Heights.—Alger, Harley C. (Junior), Mgr. Welgher Dept., The Kennicott Co.

Jones, Harold C. (Junior), Asst. to V. P., Inland Steel Co.

ILLINOIS, Chicago Heights (Continued).

Wile, Julius I., Chalmers & Williams.

Decatur.—Cash, Arthur Wise, Charge Regulating Valve and Engrg. Dept., H. Mueller Mfg. Co.

Chamberlain, George E., Ch. Engr. and Genl. Supt., A. E. Staley Mfg. Co.

Dixon.—Harlow, Justin Edwards, Mech. Engr., Ill. No. Utilities Co., 125 E. 1st St.

East Alton.—Olin, F. W., Pres., Equitable Powder Mfg. Co., West. Cartridge Co., West. Powder Mfg. Co., and Pres., Egyptian Powder Co.

East Moline.—Brown, Theophilus, Genl. Supt., Marseilles Co. Houston, George H., Supt., The Root & Van Dervoort Engrg. Co.

Soverhill, Harvey A., V. P. and Genl. Supt., Root & Van Dervoort Engrg. Co., and V. P., Moline Auto Co.

East St. Louis.—Purinton, Arthur James, care of East St. Louis & Suburban Ry. Co.

Elgin.—Gabriel, Wm. A., Ch. Draftsman and Designer, Elgin Natl. Watch Co.

Hunter, Geo. E., Genl. Supt., Elgin Natl. Watch Co.

Malvern, Lewis K., Mech. Engr., Elgin Natl. Watch Co.

Evanston.—Philbrick, Herbert Shaw, Prof. Mech. Engrg., Northwestern Univ.

Harvey.—Brandon, Geo. Russell, V. P. and Genl. Engr., Whiting Fdy. Equip. Co.

Jenkins, M. L., Genl. Supt., Buda Co.

McDougall, Andrew Horace, Ch. Engr., Whiting Fdy. Equip. Co.

Joliet.—Jonas, Milton Rudolph (Junior), Steam Expt., Ill. Steel Co.

Kankakee.—Morgan, David Bradley, 233 Indiana Ave.

Riggs, John D. (Junior), Designer, 707 Court St.

Kewanee.—Bannister, John C., Mgr., Kewanee Wks., Natl. Tube Co.

Cobb, Charles Carroll, Jr. (Junior), Asst. to Mech. Engr., Kewanee Wks., Natl. Tube Co.

McCarthy, Harry, Ch. Draftsman, Natl. Tube Co.

Newlin, Alexander Z., Mech. Engr., Kewanee Wks., Natl. Tube Co.

Quirke, Edward D., Designer and Checker, Natl. Tube Co.

Thomas, Edward G., Mech. Engr., The Boss Mfg. Co.

La Salle.—Cypher, Orren Gilbert, Mech. Engr., Matthiessen & Hegeler Zinc Co.

Neureuther, Andrew Henry (Junior), Mech. Engr., West. Clock Co.

Mattoon.—Clayton, J. Paul (Junior), Mgr. Cemmer. Dept., Central Ill. Public Service Co.

Moline.—Dunkin, William Van, Ch. Draftsman, Exper. Dept., Deere & Co.

Hunt, Wilson P., Mgr., Moline Tool Co.

Jamieson, Major Charles Clark, Efficiency Engr., Deere & Co.

Mixer, George W., V. P., Deere & Co.

Rosborough, Caldwell R., Secy., Williams, White & Co.

Oakland.—Pemberton, Carlisle (Junior), Repair Wk. in Auto Garage, Pemberton & Lyons.

ILLINOIS (Continued).

Oglesby.—Fraser, D. Ross (Junior), Chicago Portland Cement Co.

Peoria.—Brandon, William J., Mech. Engr., Avery Co.

Harman, John J., Mech. Engr., Harman Engrg. Co., 120 Fredonia Ave.

Hoppin, Charles Albert, Genl. Supt. Elec. and Htg. Depts., Central Illinois Light Co., 316 S. Jefferson Ave.

Norelius, E. F., Mech. Engr., Holt Mfg. Co., Inc.

Wallace, Ross S., V. P. and Genl. Mgr., Central Illinois Light Co., 316 S. Jefferson Ave.

Quincy.—Hill, Thomas, Cons. Engr., 2102 Jersey St.

Riverside.—Montgomery, Stafford (Junior), Industrial and Production Engr.

Rochelle.—Maysilles, John Henry, Asst. Supt., Geo. D. Whitcomb Co.

Rock Island.—Strieter, Martin Ernst (Junior), Secy. and Treas., Horst & Strieter Co., 1417-1423 Second Ave.

Rockford.—Barnes, John S., Supt. and V. P., W. F. & John Barnes Co.

Barnes, W. F., 813 N. Main St.

Colman, Howard D., Member of Firm, Barber-Colman Co.

Ingersoll, Winthrop, Pres., Ingersoll Milling Mch. Co., 1239 National Ave.

Richards, William A. (Junior), Dir. of Vocational Education, City of Rockford, High Sch. Bldg.

Spencer, Frank C., Designer, J. L. Clark Mfg. Co.

Urbana.—Benedict, Bruce Willet, Dir. Shop Laboratories, Dept. Mech. Engrg., Univ. of Ill.

Brooks, Morgan, Prof. Elec. Engrg., Univ. of Ill.

Dent, John Adlum (Junior), Assoc. Mech. Engrg., Univ. of Ill., 307 Engrg. Hall.

Domonoske, Arthur B. (Junior), Instr. Mch. Design, Univ. of Ill., 307 Engrg. Hall.

Goss, W. F. M., Dean College of Engrg., and Dir. Engrg. Exper. Sta., Univ. of Ill., and 1333 Peoples Gas Bldg., Chicago.

Harding, Louis Allen, 1103 W. Illinois St.

Kratz, Alonzo P. (Junior), Asst. in Engrg. Exper. Sta., Univ. of Ill.

Leutwiler, Oscar A., Asst. Prof. Mch. Design, Univ. of Ill.

Miller, H. W. (Junior), Asst. Dean, College of Engrg., Asst. Prof., Charge of Dept. of Genl. Engrg. Drawing, Univ. of Ill., 300 Engle Hall.

Moore, Herbert Fisher, Asst. Prof. Theoretical and Applied Mechanics, Engrg. Exper. Sta., Univ. of Ill.

Richards, Chas. Russ, Prof. Mech. Engrg., Charge of Dept., Univ. of Ill.

Schmidt, Edward C., Prof. Ry. Engrg., Univ. of Ill.

Snodgrass, John McB. (Junior), Asst. Prof. Ry. Engrg., Univ. of Ill.

Waukegan.—Banta, John Sydney, Ch. Draftsman Waukegan Wks., Am. Steel & Wire Co.

Ekstrand, L. M., Engr., Chicago Dist., Am. Steel & Wire Co.

Winnetka.—Herdman, Frank E., Mgr. and Engr., Water and Light Properties.

INDIANA

Anderson.—Cowell, William August (Junior), Mech. Engr., Am. Rotary Valve Co.

Scheurmann, Walter P., Genl. Mgr., The Hill-Tripp Pump Co.

Brazil.—Crawford, C. W., Pres., Crawford & McCrimmon Co.

Connersville.—Wilkin, John T., V. P. and Mech. Engr., Connersville Blower Co.

East Chicago.—Graver, Alexander M. (Junior), Mech. Engr., Wm. Graver Tank Wks.; also, Chicago, Ill.

True, Charles Henderson, Shop Supt., Loco. Superheater Co.

Evansville.—Harrington, Norman T., Wks. Mgr., Bucyrus Co.,
Magie, William E., Supt. of Shop, Evansville Wks., Bucyrus Co.

Fort Wayne.—Astrom, John, Mech. Engr., 611 W. Wayne St.
Barrett, Walter A. (Junior), Sales Engr., The Bass Fdy. & Mch. Co.

Feagles, Ralph L., Deister Mch. Co., Schoaff Bldg.

Guldin, Olaf N., Pres. and Genl. Mgr., The West. Gas Constr. Co.

Massa, Robt. F., H. W. Johns-Manville Co., 1650 Broadway.

Muir, John J., Mech. Supt., Bass Fdy. & Mch. Co.

Stone, Thos. W. (Junior), Engr., West. Gas Constr. Co.

Gary.—Houghton, Clyde Arthur (Junior), Asst. Elec Engr., Ill. Steel Co.

Lowell, George C., Supt. Coke Plant, Ill. Steel Co.

McArthur, Arthur Royal, Res. Engr., Am. Sheet & Tin Plate Co.

Sponsel, John Gray, Asst. to M. M. Gary Plant, Am. Bridge Co.

Hagerstown.—Teeter, Ralph R. (Junior), Engrg. Dept., Light Inspc. Car Co.

Indiana Harbor.—Bower, Ward James (Junior), Engr. on New Constr., Inland Steel Co.

Faison, William Alexander (Junior), Spec. Apprentice, Am. Steel Foundries.

Hvid, Marinus (Junior), Ch. Draftsman, Inland Steel Co.

Lees, John Walter, Genl. Supt., Inland Steel Co.

Indianapolis.—Anderson, Harry Warfield, Div. Sales Mgr., Am. Motors Co.; also, Atlanta, Ga.

Ballentine, William Irwin, Supt., Link-Belt Co.

Bartlett, George M., Mech. Engr., Diamond Chain & Mfg. Co.

Bixby, Allan Smith, Supt., Natl. Malleable Castings Co.

Hamerstadt, William D. (Junior), Engr., The Rockwood Mfg. Co.

Hanley, William Andrew, M. M. and Ch. Engr., Eli Lilly & Co.

Hurd, Charles Henry, V. P., Indianapolis Water Co., 113 Monument Pl.

Johnson, Louis L., Cons. Engr., 428 Law Bldg.

Kennedy, Harold H. (Junior), Ch. Engr., The Waverley Co.

Libby, Charles Leon, V. P. and Supt., Internatl. Mch. Tool Co.

Long, L. Guy, Mech. Engr., Fairbanks-Morse Elec. Mfg. Co.

Lyons, James W., Pres. Lyons Atlas Co.; also, Pres., Lyons Boiler Wks., DePere, Wis.

McMeans, O. E., Cons. Engr., 710 Majestic Bldg.

Mering, Barclay George, Industrial Engr., 400 Fletcher Am. Natl. Bank Bldg.

INDIANA, Indianapolis (Continued).

Millholland, William Knox, Pres., W. K. Millholland Mch. Co., Industrial Bldg., 10th and Canal Sts.

Nehrbas, Frederick Phillip, Factory Mgr., Lyons-Atlas Co.

Rockwood, George O., Pres., The Rockwood Mfg. Co., P. O. Box 636.

Sargent, Chas. E., Ch. Engr., Lyons-Atlas Co.

Schwartz, Harry Adolph, Asst. Supt., The Natl. Malleable Castings Co.

Talbot, Clifford, Supt., Am. Motors Co.; also Ilion, N. Y.

Taylor, Wm. M., Pres., Chandler & Taylor Co., S. Addison St.

Todd, Robert I., Pres. and Genl. Mgr., Indianapolis Traction & Terminal Co.

Valentine, Warren P. (Junior), 5539 Julian Ave.

Wainwright, Lucius M., Pres., Diamond Chain & Mfg. Co., 241 W. Georgia St.

Wall, William Guy, V. P. and Ch. Engr., Natl. Motor Vehicle Co.

Warrington, Jesse, 271 N. Randolph St.

Weinshank, Theodore, Mgr., Warren Webster & Co., 821 Hume • Mansur Bldg.

West, Walter Carr (Junior), Mech. Expt., Galena-Signal Oil Co., 410 Traction Bldg.

White, Herbert J., Mech. and Cons. Engr., 671 East Drive, Woodruff Pl.

Kokomo.—Oakley, Walter W. (Junior), Pittsburg Plate Glass Co.

La Porte.—Adams, Edward T., Ch. Engr., M. Rumely Co.

Brunger, Harry L., Ch. Draftsman, M. Rumely Co.

Crook, Geo. Louis, Wks. Mgr., Tractor Wks., M. Rumely Co.

Lafayette.—Bauer, Thomas, Pres. and Genl. Mgr., Lafayette Box Board & Paper Co.

Benjamin, Chas. Henry, Dean Schs. of Engrg., Purdue Univ.

Bureau, Arthur A. (Junior), Purdue Univ., 1018 State St.; also, Chicago, Ill.

Cole, Arthur W., Assoc. Prof. Mech. Engrg., Purdue Univ.

Dickerson, H. S., Asst. Prof. Mech. Engrg., Purdue Univ.

Endsley, Louis Eugene, Prof. Ry. Mech. Engrg., Purdue Univ.

Golden, M. J., Prof. Practical Mechanics, Purdue Univ.

Jamison, Alpha Pierce (Junior), Prof. Mech. Drawing, Purdue Univ.

King, Geo. Caryl, Asst. in Mch. Design, Purdue Univ.

Ludy, Llewellyn V., Prof. Exper. Engrg., Purdue Univ.

Munro, George Wesley, Asst. Prof. Mech. Engrg., Purdue Univ.

Turner, William Payson, Prof. Practical Mechanics, Purdue Univ.

Veal, C. B., Prof. Mch. Design, Purdue Univ.

Wallace, Lawrence Wilkerson, Assoc. Prof. Car and Loco. Design, Purdue Univ.

Watson, Hubert Leigh (Junior), Instr. Mch. Design, Purdue Univ.

Young, Gilbert A., Head of Dept. of Mech. Engrg., Purdue Univ.

Mishawaka.—Ahara, Edwin Hugh, Genl. Supt., Dodge Mfg. Co.

Knorr, Karl W., Member Engrg. Staff, Dodge Mfg. Co.

Mix, Melville W., Pres. and Mgr., Dodge Mfg. Co.

Roe, Walter E., Ch. Engr., Dodge Mfg. Co.

INDIANA (Continued).

Muncie.—Johnson, Abbott Livingstone, Pres., Warner Gear Co.

Newcastle.—Wellington, J. W., Mgr., Maxwell Motor Co., Inc.

Oaktown.—Hoke, Charles Constantine.

South Bend.—Clark, Dean, Wks. Mgr., South Bend Watch Co.

Johnson, Harry Disbrow, Jr. (Junior), Ch. Engr., Studebaker Corp.

Peddle, John B., Prof. Mch. Design, Rose Poly. Inst.

Terre Haute.—Wagner, Frank C., Prof. Mech. and Elec. Engrg., Rose Poly. Inst.

Williams, Alan Gillespie (Junior), Eng. House Foreman, Vandalia R. R.

Wischmeyer, Carl, Asst. Prof. Drawing and Mch. Design, Rose Poly. Inst.

Wadena.—Pape, James Otto (Junior), Mgr., Wadena Grain Co., W. F. Starz & Co.

IOWA

Ames.—Davidson, J. Brownlee, Prof. Agri. Engrg., Ia. State College.

Major, C. C., Assoc. Prof. Mech. Engrg., Ia. State College, Box 466.

Charles City.—Roudebush, Roy Everett, Designing and Engrg., Hart-Parr Co.

Willson, Ernest M., Ch. Draftsman, Hart-Parr Co.

Davenport.—Barger, Lorin W., Ch. Draftsman, Davenport Loco. Wks.

Denman, Burt J., Asst. Genl. Mgr., United Light & Rys. Co., 125-127 W. 3d St.

Hayward, Elmer L., V. P., Eagle Lumber Co., First Natl. Bank Bldg.

Des Moines.—Struckmann, Edwin, Supt., Ia. Portland Cement Co.

Van Buskirk, Henry C., Mech. Supt., C. R. I. & P. Ry.

Vincent, Gilbert Irving, Engr., Des Moines Gas Co.

Iowa City.—Wilbur, Ralph Sydney (Junior), Instr. Mech. Engrg., College of Applied Science, Univ. of Ia.

Woodward, Sherman Melville, Prof. Mechanics, State Univ. of Ia.

Keokuk.—Cooper, Hugh Lincoln, V. P. and Ch. Engr., Mississippi River Power Co.

Parsons, Burt Hewitt, Mech. Engr., Mississippi River Power Co.

Marshalltown.—Hook, James William (Junior), Sales Mgr., C. A. Dunham Co.

Ingalls, Frederick D. B., Ch. Htg. and Ventilating Engr., C. A. Dunham Co.

Mason City.—Bailey, Elton D., Supt. Power and Equip., Northwestern States Portland Cement Co.

Ottumwa.—Moschel, Herman (Junior), Supt., Dain Mfg. Co.

Perry.—Reasoner, Ralph B.

Waterloo.—Burt, Austin, Mgr., Citizens Gas & Elec. Co.

Menges, Theodore Charles, Supt., Associated Mfrs.' Co.

Plumb, Harold B., Wks. Mgr., Ia. Dairy Separator Co.

KANSAS

- Chanute.**—Coburn, R. G. (Junior), 19 S. Central St.
- Horton.**—Beyer, Otto S., Jr. (Junior), Genl. Foreman, Rock Island Lines.
- Hutchinson.**—Rutherford, G. S., Mgr., The Kan. Chem. Mfg Co., The Solvay Process Co., Lessee.
- Independence.**—Moeller, William, Jr., Engr. and Supt. of Main Lines, Kan. Natural Gas Co.
- Iola.**—Norvig, Johan, Supt., The Iola Portland Cement Co.
Swiggett, Clayton Andrew (Junior), Mech. Engr. and Asst. Supt., Iola Portland Cement Co.
- Lawrence.**—Sibley, Frederick H., Mech. Engrg., Univ. of Kan.
Sluss, Alfred Higgins, Asst. Prof. Mech. Engrg., Mech. Lab., Kan. State Univ.
Walker, Perley F., Dean Sch. of Engrg., Prof. Mech. Engrg., Univ. of Kan.
- Manhattan.**—Bowerman, Myron Ralph (Junior), Asst. in Mech. Drawing and Mch. Design, Kan. State Agri. College.
Potter, Andrey A., Prof. Steam and Gas Engrg., Acting Dean of Engrg., Kan. State Agri. College.
Seaton, Roy Andrew (Junior), Prof. of Applied Mechanics and Hydraulics, Charge of Mech. Drawing and Mch. Design, Kan. State Agri. College.
- Parsons.**—Maddocks, Wm. H., Asst. Supt. Mchy. and Equip., M. K. & T. Ry.
- Pittsburg.**—Bosworth, Wilbur McKnew, Mech. Engr., Kansas City So. Ry. Co.
Freeman, Lewis DeWitt (Junior), Ch. Draftsman, The Kansas City So. Ry. Co.
- Topeka.**—Lillie, Grant W. (Junior), Mech. Supt., Rock Island Lines.
Whiteford, James F., Bonus Supvr., Santa Fé R. R. Shops, Santa Fé Motive Power Bldg.

KENTUCKY

- Ashland.**—von Bayer, August H., Supt., Ky. Solvay Coke Co.
- Fulton.**—Miltenerberger, George Kerr (Junior), Genl. Mgr., Fulton Elec. Light & Power Co.
- Georgetown.**—Offutt, M. Webb.
- Jenkins.**—Maurer, Daniel Alfred, The Consolidation Coal Co., Inc.
- Lexington.**—Anderson, Frederick Paul, Prof. Mech. Engrg., Dean and Dir. College of Mech. and Elec. Engrg., State Univ. of Ky., Box 294.
Cassidy, Perry Rogan (Junior), Instr. Steam Engrg., College of Mech. and Elec. Engrg., State Univ. of Ky., Mech. Hall.
- Louisville.**—Cox, Millard F., Mech. Engr., Louisville & Nashville R. R. Co.
Dugan, Claude M., Jr., Cons. Engr., Dugan Engrg. Co., Equitable Bldg.
Fortney, Camden P., Junior Engr., U. S. A. Engrs.; also, Montrose, Pa.
Grunwell, Paul C., U. S. Junior Engr., U. S. Engrg. Dept., Box 72, Custom House.
Harries, Genl. George Herbert, 311 W. Chestnut St.
Herb, Arthur (Junior), Mech. Engr., J. Schwarzwald & Sons, 18th and Magnolia Sts.

KENTUCKY, Louisville (Continued).

Lawrence, Samuel Eugene (Junior), Junior Mech. Engr., U. S. Engr. Dept.; also, Fort Smith, Ark.

Leisen, Theodore Alfred, Ch. Engr. and Supt., Louisville Water Co., 435 Third St.

Speed, William S., Pres., Louisville Cement Co., 325 W. Main St.

Newport.—Hornung, Geo., Cons. Engr., Woolsack Bldg.

LOUISIANA

Adeline.—Sprague, Benjamin O., Genl Mgr., Adeline Sugar Factory Co.

Amite.—Freeman, Perry John (Junior), Gullett Cotton Gin Co.

Baton Rouge.—Kerr, Eugene W., Prof. Mech. Engrg., La. State Univ.

Cinclare.—Whipple, William (Junior), Supt., Cinclare Central Factory.

Lake Charles.—Chalkley, Henry G., Mgr. and Engr., North Am. Land & Timber Co.

Lake Providence.—Hider, George Turner (Junior); also, Greenville, Miss.

Morgan City.—Pharr, Eugene A., Sugar Planter and Mfr.

New Orleans.—Beck, James Doughty, Supt. Constr., Shakespeare Iron Wks., 913 Girod St.

Borde, George U., Cons. Engr., 820-822 Hibernia Bldg.

Burwell, Robert Turnbull, Ch. Insp. Gulf Dept., Hartford Steam Boiler Inspc. & Ins. Co., 833 Gravier St.

Castanedo, Walter, Dist. Mgr., Power Plant Equip., 1103 Hennen Bldg.

Davis, George Henry, Member of Firm, Ford, Bacon & Davis of 115 Broadway, New York, N. Y., 921 Canal St.

Gregory, William B., Prof. Exper. Engrg., Tulane Univ., and Irrigation Engr., U. S. Dept. of Agri., 630 Pine St.

Hutson, Henry L., Ch. Engr. and Secy., A. M. Lockett & Co., Ltd., 533 Baronne St.

Ivens, Edmund M. (Junior), Asst. Mgr., New Orleans Office, Skinner Eng. Co., 1018 Hibernia Bank Bldg.

Jahncke, Ernest Lee, Pres., The Jahncke Navigation Co., 814 Howard Ave.

Johnson, Warren, Cons. Engr., 122 Carondelet St.

Lockett, Andrew Moore, Pres., A. M. Lockett & Co., Ltd., 533 Baronne St.

McKinney, Edward Byron, Sr., Supt. of Power, New Orleans Ry. & Light Co., 205 Baronne St.

McMillan, Chas. M. (Junior), Purchasing Agt., The Jahncke Navigation Co., 814 Howard Ave.

Malochee, Henry J., Mech. Engr., 802 Perrin Bldg.

Murphy, John H., Mfr. and Contr. Engr., John H. Murphy Iron Wks., Magazine & Girod Sts., P. O. Box 1748.

Nelson, Bernard Stanley (Junior), A. M. Lockett & Co., 533 Baronne St.

Nott, Albin James (Junior), 4122 Perrier St.

Porter, Hollis P., 4421 Laurel St.; also, Topeka, Kan.

Raymond, Alfred, Genl. Mgr., Drainage, 503 City Hall Annex.

Rugan, Henry Fisler, Assoc. Prof. Mech. Arts, Tulane Univ.

Snypp, Charles Edward, Dist. Engr., The So. Cotton Oil Co.

Von Phul, Gilbert D., Contr. Mech. Engr., Sugar and Genl. Mchy., 322 Hibernia Bank Bldg.

LOUISIANA, New Orleans (Continued).

von Phul, William, Member of Firm, Ford, Bacon & Davis,
921 Canal St.

Olivier.—Pharr, Henry Newton, Sugar Planter and Mfr., Iberia Parish.

Sulphur.—Henning, John L., Asst. Mgr., The Union Sulphur Co.

MAINE

Bangor.—Humphrey, Orman B., Cons. Engr., 57 State St.

Penney, Rodney Clapp, Mech. Engr., Dodge Mfg. Co.

Rowe, George F., Mech. Engr.

Bath.—Andrews, Jacob R., Pres., Hyde Windlass Co.

Hyde, John Sedgwick, Pres. and Genl. Mgr., Bath Iron Wks.

Biddeford.—Blake, Edmund E., Agt., Saco-Lowell Shops.

McArthur, Robt., 34 Jefferson St.

Brunswick.—Eaton, Russell Wm., Agt., Cabot Mfg. Co.

Cumberland Mills.—Schumaker, John Stauble, Ch. Engr. and
Mech. Supt., S. D. Warren & Co.

Warren, John E., Agt., Pulp and Paper Mills, Westbrook.

Lewiston.—Bates, Daniel Moore, Agt., Lewiston Bleachery &
Dye Wks.

Fisher, Lieut. Joseph Otto (Junior), U. S. Navy, Ch. Engr.,

U. S. S. North Dakota, 632 Main St.

Lincoln.—Copeland, Stuart B. (Junior), Mech. Supt., Katahdin
Pulp & Paper Co.

North Lovell, Oxford Co.—Garcelon, Charles A., Jr. (Junior).

Orono.—Jewett, Arthur C., Prof. Mech. Engrg., Univ. of Me.

Palmer, Perley Burnham, Genl. Supt., Orono Pulp & Paper Co.
of Bangor.

Portland.—Hammett, Philip Melancthon, Supt. M. P., Me. Central R. R. Co.

Scarborough.—Jordan, Samuel S., Naval Arch. and Engr.

Waterville.—Marr, Geo. H., Mech. Engr., Hollingsworth & Whitney Co.

Philbrick, Frank B., Pres., Waterville Iron Wks.

MARYLAND

Annapolis.—Cole, Winthrop, Mech. Engr., Engrg. Exper. Sta.,
U. S. Naval Academy.

Danforth, Raymond Hewes, Asst. to Head Postgraduate Dept.,
in charge Steam Engrg. Wk., U. S. Naval Acad.

De Baufre, Wm. L., Mech. Engr., U. S. Naval Engrg. Exper.
Sta.

Johnson, Theodore Woolsey, Prof. Mathematics, U. S. Navy,
Naval Academy.

Loeb, Leo (Junior), Mech. Engr., Naval Engrg. Exper. Sta.

Mardaga, Louis (Junior), Engrg. Observer, U. S. Naval Engrg.
Exper. Sta.

Rittenour, Frederick H., Draftsman Dept. of Marine Engrg.
and Naval Constr., U. S. Naval Academy.

Baltimore.—Adams, Henry, Cons. Engr., 855-859 Calvert Bldg.

Beadenkopf, George, Ch. Engr. Gas Div., Consld. Gas, Elec.
Light & Power Co., Lexington and Liberty Sts.

Boyd, Wm. Wallace (Junior), 1808 St. Paul St.

Carroll, John Thomas, Asst. Genl. Supt. M. P., Baltimore &
Ohio R. R.

MARYLAND, Baltimore (Continued).

- Chatard, Wm. M., Member of Firm, Chatard & Norris, Contr. Engrs., 1415 Continental Trust Bldg.
- Clark, Frank Henry, Genl. Supt., M. P., B. & O. R. R.
- Cottman, Lewis Warrington, Supt. and Ch. Engr., The Palmetto Phosphate Co., Keyser Bldg.
- Detrick, Jacob S., Pres., Detrick & Harvey Mch. Co., 508 E. Preston St.
- Fenhagen, Frank Donald (Junior), Asst. Engr. with Henry Adams, Cons. Engr., 859 Calvert Bldg.
- Ford, John D., Rear Admiral, U. S. N., 2319 Maryland Ave.
- Keilholtz, Pierre Otis, Cons. Engr., Continental Bldg.
- Lewis, Joseph E. (Junior), Cons. Engr., 1601 Moreland Ave.
- Meade, Richard Kidder, Chem. and Industrial Engr., Cons. Practice, 202 N. Calvert St.
- Middleton, Harvey, Pres., Thos. C. Basshor Co., 28 Light St.
- Mirkil, Thomas H., Jr., V. P. and Genl. Mgr., Poole Engrg. & Mch. Co., Woodberry.
- Mitchell, Guy K., Prop., Stand. Elec. & Elev. Co., 123 S. Calvert St.
- Neidhardt, J. Wm., Ch. Engr. and Wks. Mgr., Detrick & Harvey Mch. Co.
- Norris, Alexander Murdock (Junior), Member of Firm, Chatard & Norris, 1415 Continental Bldg.
- Owens, Charles Trump, 1830 St. Paul St.
- Passano, Edward Boteler, Pres. and Mgr., The Williams & Wilkins Co., 2427 Greenmount Ave.
- Peirce, Wm. Henry, V. P. and Genl. Mgr., Baltimore Copper Smelting & Rolling Co.
- Pennington, James H., Supt. Constr. and Power, Am. Smelting & Refining Co.
- Polk, Anderson, Assoc. with The Lowe Bros. Co. of Dayton, O., Paint Makers, 608 Continental Bldg.; also, New York, N. Y.
- Posey, James (Junior), Cons. Engr., 328 N. Charles St.
- Reeder, Charles L., Cons. Engr., 917-921 Equitable Bldg.
- Sandman, August George, Ch. Draftsman, M. P. Dept., Baltimore & Ohio R. R. Co.
- Schmidt, Charles R., 200 E. 24th St.
- Scott, James B., Cons. Engr., 745-751 Calvert Bldg.
- Sickles, Eugene Chas., Supt. Power Plants, B. & O. R. R., Central Bldg.
- Straus, William Rayner (Junior), Asst. Supt. Rolling Mill, Baltimore Copper Wks.
- Sturgis, Wm. Bayard (Junior), Post Graduate Student in Chem., Johns Hopkins Univ., Box 548.
- Thomas, Carl C., Prof. Mech. Engrg., Johns Hopkins Univ.
- Varney, Wm. Wesley, Mech. Engr., and Atty-at-Law, 1221 Calvert Bldg., St. Paul and Fayette Sts.
- Wagner, Frederick Henry, Ch. Engr., The Bartlett Hayward Co.
- Walden, Albert E., Supt. and Ch. Engr., Baltimore Co. Water & Elec. Co., 100 W. Fayette St.
- Wilson, H. Howell, Supt. of Power Plants, Baltimore & Ohio R. R. Co.
- Wilson, William L. (Junior), Wilson-Maltman Elec. Co., 30 S. Charles St.

Cambridge.—Basshor, Chas. Hazeltine.

MARYLAND (Continued).

Cumberland.—Muncaster, Walter J., V. P. and Genl. Mgr., Cumberland Steel Co.

Frostburg.—Tuvlin, Julius Harold (Junior).

Hagerstown.—Germain, Joseph Napoleon, Mech. Engr., Pangborn Corp.

Hull, Foster John, 102 Broadway.

Whipple, C. Earl, Genl. Mgr. and Treas., N. Y. Central Iron Wks. Co.

Sparrows Point.—Hollmann, Frederick W. (Junior), M. M., Md. Steel Co.

Krause, Albert Edward, Supt. Mech. Dept., Md. Steel Co.

Lane, Harry Clay, Ch. Draftsman, Md. Steel Co.

Martin, Simon Strock, Supt., Md. Steel Co., P. O. Box 87.

Wood, Frederick William, Pres., Md. Steel Co.

Takoma Park.—Truell, Karl O., 240 Maple Ave.

MASSACHUSETTS

Acton.—Crooker, Ralph.

Adams.—Plunkett, Charles T., Pres. and Secy., Berkshire Cotton Mfg. Co.

Allerton.—Rivett, Edward.

Arlington.—Schwamb, Peter, Treas., Theodore Schwamb Co., 1171 Massachusetts Ave.

Athol.—Goddard, Archibald N., Supt., Union Twist Drill Co.

McGregor, John A., Pres., Union Twist Drill Co.

Simpson, Robert James Osborne, Supt. and Mech. Engr., L. S. Starrett Co.

Attleboro.—Mossberg, Frank, Pres. and Genl. Mgr., Frank Mossberg Co.; also V. P., Cons. Engr., Stand. Mech. Co. of Providence, R. I.

Tuttle, Walter Irving (Junior), Secy., Treas. and Asst. Genl. Mgr., Frank Mossberg Co.

Beverly.—Ball, Walter Seaver, United Shoe Mchy. Co.

Dyson, Eugene Ernest (Junior), Draftsman, United Shoe Mchy. Co.

Farrell, Harry C., Mech. Engr., United Shoe Mchy. Co.

Hadaway, John Benjamin, Charge Exper. Dept., United Shoe Mchy. Co.

Boston.—Adams, Kilburn E. (Junior), Installations Dept., The Edison Elec. Ill. Co. of Boston, 39 Boylston St.

Alden, Frederick Arthur, Night Store Supt., Wm. Filene's Sons Co., Washington, Summer and Hawley Sts.

Aldrich, Chester S. (Junior), Treas., Gray-Aldrich Co., Inc., 33 Commercial Wharf.

Andersen, Johan Marinus, Pres., Albert & J. M. Anderson Mfg. Co., 289 A St.

Andrew, James D., 39 Boylston St.

Andrews, David Herbert, Pres., The Boston Bridge Wks., Inc., 47 Winter St.

Ash, Horace W., Mech. Engr., Head of Engrg. Dept., Warren Bros. Co., 59 Temple Pl.

Ashton, Albert Carter, Treas., Ashton Valve Co., 271 Franklin St.

Ayres, Richard S. (Junior), Industrial Engr., Rice & Hutchins, Inc., 14-20 High St.

Babbitt, Arthur Bradford, Head of Dept. of Drawing and Design, Wentworth Inst.

MASSACHUSETTS, Boston (Continued).

- Bailey, Ervin G., Mech. Engr. and Partner, Fuel Testing Co., 220 Devonshire St.
- Baker, Charles F., Cons. Engr., 84 State St.
- Bancroft, Charles Foster, V. P., Manchester Elec. Co., Elec. Engr., Mass. Elec. Cos., Supt. M. P. and Mchy., Bay State St. Ry. Co., 84 State St.
- Barker, Perry (Junior), Fuel Engr., Arthur D. Little, Inc., 93 Broad St.
- Barr, H. P., Spec. Rep., The Lamson Co.
- Barrus, Geo. H., Expt. and Cons. Steam Engr., 301 Pemberton Bldg., 12-20 Pemberton Sq.
- Bartlett, Charles H., Constr. Engr., Stone & Webster Engrg. Corp.
- Bartlett, Edwin E., Mfr., 326 A St.
- Bartlett, Henry, Genl. Mech. Supt., Boston & Me. R. R., North Sta.
- Bates, Edward Carrington, 122 Marlboro St.
- Behrend, Bernard A., Cons. Engr., 434 John Hancock Bldg., 200 Devonshire St.
- Bellows, Lewis Edward, 24 Milk St.
- Bowers, George Wright, Mech. and Cons. Engr., 53 Devonshire St.
- Braman, Samuel N. (Junior), 33 Pearl St.
- Brigham, Edmond F., Mech. Engr., N. E. Confectionery Co.
- Brown, Harry Sanford (Junior), N. E. Sales Mgr., Power Spec. Co., 50 Congress St.
- Brown, Harry W. (Junior), Asst. Engr., Am. Agri. Chem. Co., 92 State St.
- Browne, James Hugh, French & Hubbard, 88 Pearl St.
- Bump, Archie Edmund, Mgr. Constr. Dept., Swift & Co., 34 N. Market St.
- Burleigh, Chas. B., Dist. Mgr. Ltg. Dept., Genl. Elec. Co., 84 State St.
- Burleigh, William Storer (Junior), Inspr., Underwriters' Labs., 87 Milk St.
- Burnham, Harry A., Engr. and Spec. Inspr., Factory Mutual Fire Ins. Cos., 31 Milk St.
- Bushnell, Fred. N., V. P. and Engrg. Mgr., Stone & Webster Engrg. Corp., 147 Milk St.
- Calder, John, Engr., Willett, Sears & Co., 60 Federal St.
- Cargill, Walter Neal, Engr., Stone & Webster Engrg. Corp., 147 Milk St.
- Carhart, Alfred B., Supt., Crosby Steam Gage & Valve Co.
- Carleton, Robert Arthur, Inspr. of Constr., Edison Elec. Ill. Co.
- Carpenter, Horace, Coffin Valve Co.
- Chamberlain, A. B., Engr. Steam Div., Sta. Engrg. Dept., Edison Elec. Ill. Co., 39 Boylston St.
- Chandler, Clarence Austin, 31 State St.
- Chapman, David Albert, Mech. Supt., Wm. Filene's Sons Co., Washington, Summer and Hawley Sts.
- Cheney, Nathan, Engr., Stone & Webster Engrg. Corp., 147 Milk St.
- Church, Wm. Lee, Pres. and Cons. Engr., Ambursen Hyd. Constr. Co., 88 Pearl St.; also, New York, N. Y.
- Churchill, Charles O., Salesman, Lackawanna Steel Co., 40 Central St.

MASSACHUSETTS, Boston (Continued).

- Clark, Edward Lord, Mgr. Boston Office, Westinghouse Mch. Co., 201 Devonshire St.
- Clark, Frank S., Engr., Stone & Webster Engrg. Corp., 147 Milk St.
- Clarke, Alfred, Pres., Gas & Elec. Corps., 77 Franklin St.; also, Walpole, N. H.
- Clarke, Arthur French, Priest, Page & Co., 145 Franklin St.
- Clarke, Charles Warrington E., Mech. Engr., Stone & Webster Engrg. Corp., 147 Milk St.
- Coburn, Howard L., Secy. and Ch. Engr., Ambursen Hyd. Constr. Co., 88 Pearl St.
- Coes, Harold V. O., Spec. Prin. Asst., Lockwood, Greene & Co., 60 Federal St.
- Cole, Fred Baker, Prin. Asst. Engr., Chas. T. Main, 201 Devonshire St.
- Collins, B. R. T., Cons. Mech. Engr. and Power Plant Economist, 201 Devonshire St.
- Colwell, Augustus W., Rm. 405, 79 Milk St.
- Cope, Robert Harper (Junior), Taylor-Wharton Iron & Steel Co., 178 High St.
- Croghan, John T., Constr. Supt., Stone & Webster Engrg. Corp., 147 Milk St.
- Crosby, William Wyman, Member of Firm, F. W. Dean, Inc., Engrs., Rm. 1112, 53 State St.
- Curtis, Ralph E., Edison Elec. Ill. Co. of Boston, 39 Boylston St.
- Cutler, Arthur E., Mech. Engr., Ashton Valve Co., 271 Franklin St.
- Daggett, Herbert Chapin, Mgr., N. E. Branch Office, S. Morgan Smith Co., 176 Federal St.
- Davis, Albion Richmond (Junior), Ch. Draftsman, Gray & Davis, Inc.
- Davis, Herman Haupt, Mgr., Boston Office, Fuller Bros. & Co., 24 Milk St.
- Dawes, Herbert N., V. P., Nightingale & Childs Co., Pres., Cerro Gordo Fruit Co., V. P., Putnam-Morrill Co., 205 Congress St.
- Dean, Dion Kanouse (Junior), Dist. Sales Mgr., Alberger Pump & Condenser Co., 88 Broad St.
- Dean, Francis W., Mill Engr. and Arch., Exch. Bldg., 53 State St.
- De Lany, George Samuel, Genl. Mgr., Rivett Lathe & Grinder Co., Brighton.
- Densmore, Edward D., Engr. and Arch., Densmore & LeClear, 88 Broad St.
- DeWolf, John O., Mech. and Mill Engr., 19 Milk St.
- Dillon, Robert Emmet (Junior), Tech. Engr., Edison Elec. Ill. Co. of Boston, 39 Boylston St.
- Dodds, William B. (Junior), Chem. and Asst. Gas Engr., Mass. Ltg. Cos., 77 Franklin St.
- Dow, Benjamin Warren (Junior), Sales Engr., Wilson & Snyder Centrifugal Pump Co., 77 Franklin St.
- Dowst, F. B., West Roxbury.
- Duncan, Albert Greene, Treas., Chicopee Mfg. Co., Treas., Harmony Mills.
- Durfee, Walter C., Cons. and Mfg. Chem., 516 Atlantic Ave.
- Dusossoit, Octave, Res. Agt., Hohmann & Maurer Mfg. Co.

MASSACHUSETTS, Boston (Continued).

- Edgar, Charles Leavitt, Pres. and Genl. Mgr., Edison Elec. Ill. Co. of Boston, 70 State St.
- Edwards, William Wesley (Junior), Instr. in Charge Steam Power Plant Lab., Wentworth Inst.
- Eldredge, A. H., Cons. Engr., N. E. States Office, North Packing & Provision Co.
- English, William T., Pres., Walworth-English-Flett Co., 100 Pearl St.
- Evans, Howard W., Mgr. Power Piping Dept., Walworth Mfg. Co.
- Fairbanks, Frank Leon, Ch. Engr., Quincy Market Cold Storage & Warehouse Co., 69 Eastern Ave.
- Fales, Henry Hammett, Supvg. Engr., Willett, Sears & Co., 60 Federal St.
- Fallon, John B. (Junior), Treas., Stickney & Poor Spice Co., 184 State St.
- Farrar, Chas. O., Supt. Constr., Otis Elev. Co., 34 India St.
- Fish, Charles H., 85 Devonshire St.
- Fisher, Henry Donald (Junior), Fuel Testing Co., 220 Devonshire St.
- Flather, Frederick A., Treas., Boott Mills, 79 Milk St.
- Foley, Leonard H. (Junior), Foreman Drafting Room Sta. Engrg. Dept., Edison Elec. Ill. Co. of Boston, 39 Boylston St.
- Ford, William Lucas, N. E. Sales Mgr., Murphy Iron Wks. of Detroit, Mich., 201 Devonshire St.
- French, Edward Vinton, V. P. and Engr., Arkwright Mut. Fire Ins. Co., 31 Milk St.
- Frothingham, Francis Edward, Engr., Perry, Coffin & Burr, 60 State St.
- Fuller, Charles Edward, Prof. Theoretical and Applied Mechanics, Mass. Inst. of Tech.
- Fulton, Arthur Oram (Junior), Mgr. Hy Ten Steel Dept., Wheelock Lovejoy & Co., 35 Oliver St.
- Galloupe, Francis E., Mech. Engr., 335 Old South Bldg.
- Gerrish, William H., Ch. Smoke Insp., Bd. of Gas and Elec. Light Comms., Commonwealth of Mass., 603 Ford Bldg., 15 Ashburton Pl.
- Gleason, Gilbert Howe, Dodge Mfg. Co., 137 Purchase St.
- Goodenough, Walter, Mgr., Keokuk Div., Stone & Webster Engrg. Corp., 147 Milk St.
- Gooding, Chas. S., Mech. Engr. and Solicitor Patents, 28 School St.
- Greene, Edwin Farnham, Pres., Lockwood, Greene & Co., 60 Federal St.
- Greene, Levi Rawson, Cons. Engr., Walworth Mfg. Co., 132 Federal St.
- Hale, Robt. Sever, Edison Elec. Ill. Co., 39 Boylston St.
- Hall, Robert E., V. P. and Treas., The Goulds Mfg. Co. of N. E., 58 Pearl St.
- Hartwell, Hiram B. (Junior), Ch. Draftsman, Crosby Steam Gage & Valve Co., Roland St., Charlestown.
- Haven, George Bartholomew, Assoc. Prof. Mech. Engrg., Mass. Inst. of Tech.
- Haven, Harry M., Member of Firm, F. W. Dean, Inc., 53 State St.
- Hayes, Frank H., N. E. Agency Mgr., Internatl. Steam Pump Co., 465 John Hancock Bldg.

MASSACHUSETTS, Boston (Continued).

- Hayes, J. Howard (Junior), Mech. and Sales Engr., The Platt Iron Wks. Co., 94 Pearl St.
- Heermann, Frederick M., Engr. and Spec. Inspr., Factory Mut. Fire Ins. Cos., 31 Milk St.
- Herrick, Charles H., N. E. Rep. Gas Eng. Dept., National Meter Co., 159 Franklin St.
- Higgins, George F., Treas., Gem Stamped Steel Co., Chelsea Sta.
- Hildreth, William Osgood (Junior), Engr., The Lamson Co., 161 Devonshire St.
- Hill, Walter L., Hill-Ray Engrg. Co., 110 State St.
- Hobbs, Franklin Warren, Pres. and Exec. Officer, Arlington Mills, 78 Chauncy St.
- Hogan, Patrick Henry, N. E. Mgr., Dearborn Chem. Co., John Hancock Bldg.
- Hogue, Oliver Driscoll, 550 Tremont Bldg.
- Hosmer, Sidney, Elec. Engr., Edison Elec. Ill. Co., 39 Boylston St.
- Hoxie, Frederick J., Engr. and Spec. Inspr., Asso. Factory Mut. Ins. Cos., 31 Milk St.
- Hubbard, Allen, Hollis French & Allen Hubbard, 88 Pearl St.
- Hunter, Charles Welsh, Gas Engr., Stone & Webster Engrg. Corp., 147 Milk St.
- Hurdell, Victor Hollister (Junior), Salesman, Internatl. Steam Pump Co., 465 John Hancock Bldg.; also, Providence, R. I.
- Hurley, Daniel (Junior), Technology Chambers; also, Providence, R. I.
- Hussey, Oren S., Treas., Frank Ridlon Co., 253 A St.
- Hutchison, Richard, Dist. Sales Mgr., Babcock & Wilcox Co., 35 Federal St.
- Irwin, F. B., Supt. B. and O., Boston & Me. R. R., 304 North Sta.
- Jackson, Dugald C., 248 Boylston St., and Mass. Inst. of Tech.; also, D. C. & Wm. B. Jackson, 111 W. Monroe St., Chicago, Ill.
- Jackson, Henry Docker, Cons. Engr., 88 Broad St.
- Jagues, Wm. H., Capt. and Pres., Hampton Water Wks. Co., Progress Mfg. Co., 142 Beacon St.; also, Little Boar's Head, N. H.
- Jealous, Arthur R. (Junior), Genl. Elec. Co., 84 State St.
- Jennings, Chester S., Asst. Ch. Engr., The Lamson Co., 161 Devonshire St.
- Jennings, Edward M. (Junior), Jarvis Engrg. Co. and Sales Agt., Parson Mfg. Co., 63 Oliver St.
- Johnson, Joseph Warren (Junior), Engrg. Dept., The Am. Agrl. Chem. Co., 92 State St.
- Johnston, William Atkinson, Prof. of Theoretical and Applied Mechanics, Mass. Inst. of Tech.
- Kaven, Moses B., Genl. Supt., United Shoe Mchy Co., 205 Lincoln St.
- Kellogg, Alfred S., Cons. Engr.
- Kendrick, Hon. Paul H., Ingalls & Kendrick, Inc., 80 Sudbury St.
- Keough, William T., Business Agt., Boston Public Schs., 168 Tremont St.
- Kilgour, Dwight Foster, Mech. Engr. for Chas. E. Cotting, Trustee, 11 Pemberton Sq.

MASSACHUSETTS, Boston (Continued).

- Kimball, Richard D., 6 Beacon St.
 Kunhardt, Lewis Henry, V. P. and Engr., Boston Mfrs'. Mut. Fire Ins. Co., 31 Milk St.
 Lacount, Henry Osgood, Engr. and Asst. Secy. Inspec. Dept., Asso. Factory Mut. Fire Ins. Cos., 31 Milk St.
 Lawton, M. A., Treas., A. J. Morse & Son, Inc., 221 High St.
 Leland, Sanford Daniels, Pres. and Genl. Mgr., Mfg. Equip. & Engrg. Co., 209 Washington St.
 Libbey, Joseph Harold, Asst. Elec. Engr., Bay State St. Ry. Co., 84 State St.
 Little, Arthur Dehon, Chem. Engr., Pres. and Mgr., Arthur D. Little, Inc., 93 Broad St.
 Lobben, Peder, Mech. Engr., 289 A St.
 Lord, Harold S. (Junior), 1049 Beacon St.
 Loring, Harrison, Jr., Treas. and Mech. Engr., R. S. Brine Transportation Co., 43 India St.
 McIntosh, Walter S., Wks. Mgr., S. A. Woods Mch. Co.
 McLauthlin, Martin B., Engr. and Treas., Geo. T. McLauthlin Co., 120 Fulton St.
 McNeil, Joseph Hensley, Ch. Inspr. Boston Dept., Hartford Steam Boiler Inspec. & Ins. Co., 101 Milk St.
 Main, Charles T., Engr., Rms. 817-833, 201 Devonshire St.
 Mazzur, Frank Amedee, N. E. Mgr., Wheeler Condenser & Engrg. Co., 141 Milk St.
 Merrill, Frank A., Mgr., The Merrill Co., 19 Pearl St.
 Metcalf, Leonard, Member of Firm, Metcalf & Eddy, 14 Beacon St.
 Miller, Edward Furber, Prof. Steam Engrg., Mass. Inst. of Tech.
 Monks, Archibald G., Partner, Monks & Johnson, 78 Devonshire St.
 Morgan, William F., N. E. Agt., Am. Mfg. Co., Beacon and Joy Sts.
 Morse, Robert Gorham, Treas. and Asst. Mgr., Rivett Lathe & Grinder Co.
 Mosman, Chas. Tyler, Dist. Engr., Genl. Elec. Co., 84 State St.
 Moulthrop, Irving E., Asst. Supt. Constr. Bureau, Edison Elec. Ill. Co. of Boston, 39 Boylston St.
 Newhall, Arthur Brock (Junior), Instr. Applied Science, Wentworth Inst.
 Nicholl, John Seymour (Junior), Pres., Riverside Boiler Wks., Inc., 19 Congress St.
 Norton, Charles L., Prof. Heat Measurements, Mass. Inst. of Tech.
 Olson, Charles Andrew, Wks. Mgr., Walworth Mfg. Co.
 Osteman, Carl G., Mech. Engr., S. A. Woods Mch. Co.
 Paine, Sidney B., Mgr. Mill Power Dept., Genl. Elec. Co., 84 State St.
 Palmer, George W., Jr., Elec. Engr., Bay State St. Ry. Co., 84 State St.
 Park, William R., Cons. Engr., Hancock Inspirator Co., 23 Watson St., Sta. A.
 Parker, Charles H., Asst. Supt. Generating Dept., The Edison Elec. Ill. Co. of Boston, 39 Boylston St.
 Parker, Lee Hamilton, Ry. Engr., Stone & Webster Engrg. Corp., 147 Milk St.

MASSACHUSETTS, Boston (Continued).

- Patton, David Collins (Junior), Rep., The Midvale Steel Co., 251 Atlantic Ave.; also, New Haven, Conn.
- Pearson, Albert L., Elec. Engr., Lockwood, Greene & Co., 60 Federal St.
- Pepper, Chester Lawrence (Junior), Safety Inspr., Mass. Employees Ins. Asso., 84 State St.
- Perry, Frank B., Mill Power Dept., Genl. Elec. Co., 84 State St.
- Pierce, Richard H., Cons. Engr., 35 Congress St.
- Powell, E. Burnley, Mech. Engr., Stone & Webster Engrg. Corp., 147 Milk St.
- Prout, Henry Byrd (Junior), Salesman, Westinghouse Mch. Co., 201 Devonshire St.
- Raynes, Harry C., H. C. Raynes, Inc., 40 Central St.
- Reynolds, Frank W., Member of Firm, Lockwood, Greene & Co., 60 Federal St.
- Richardson, Edward Bridge, Partner, Richardson & Hale, Cons. Engrs., 85 Water St.
- Riley, Joseph C., Assoc. Prof. Mech. Engrg., Mass. Inst. of Tech.
- Robb, D. W., Mgr., Internatl. Engrg. Wks., 131 State St.
- Rockwell, Willard F. (Junior), Industrial Engr., Clinton H. Scovell & Co., 40 Central St.
- Rowley, Harry William, Genl. Mgr., Boston Development & Sanitary Co., 1140 Old South Bldg.
- Rowell, Henry K., Industrial Engr., Prin. Asst. Charge Organization Dept., Chas. T. Main.
- Russell, Walter B., Dir., Franklin Union.
- Seymour, Joseph W. (Junior), Mgr., Boston Office, The C. & G. Cooper Co., 201 Devonshire St.; also, Edgewood, R. I.
- Shedd, Frank Edson, V. P. and Ch. Engr., Lockwood, Greene & Co., 60 Federal St.
- Sherburne, Kenneth (Junior), Engr., Automatic Appliance Co., 172 Columbus Ave.
- Smith, Albert Samuel, Supt. of Bldgs. and Power, Mass. Inst. of Tech.
- Smith, Elmer, Genl. Elec. Co., 84 State St.
- Smith, Sidney L., Mech. Engr., 90 Elm Hill Ave.
- Snow, Walter B., Publicity Engr., 170 Summer St.
- Snow, Wm. Gage, N. E. Mgr., Warren Webster & Co. of Camden, N. J., Rm. 1108, 24 Milk St.
- Starbuck, George F. (Junior), Draftsman, Boston Elev. Ry.
- Starkweather, Wm. G., N. E. Mgr., C. H. Wheeler Mfg. Co., and A. L. Ide & Sons, 53 State St.
- Stevens, Harold L., Dist. Sales Mgr., Lackawanna Steel Co., 40 Central St.
- Stewart, Chas. E. (Junior), Cons. Engr., Gasoline Engs., Head Dept. Auto. Instr., Franklin Union, Berkeley St.
- Stoddard, Geo. Howland, Treas. and Mgr., Quincy Market Cold Storage & Warehouse Co., 133 Commercial St.
- Sturgess, John, Secy. and N. E. Mgr., The Platt Iron Wks. Co., 94 Pearl St.
- Taft, Theo. H., Asst. Prof. Mech. Engrg., Mass. Inst. of Tech.
- Teague, Walter Owen, Engr. and Inspr., Associated Factory Mutual Fire Ins. Cos., 31 Milk St.
- Tenney, Albert Ball, V. P., Charles H. Tenney & Co., 201 Devonshire St.

MASSACHUSETTS, Boston (Continued).

- Timble, William H., Head of Dept. of Applied Science, Wentworth Inst.
- Tolman, James P., Pres., Samson Cordage Wks., 88 Broad St.
- Uhl, William F., Hyd. Engr. with Charles T. Main, Rm. 819, 201 Devonshire St.
- Wadsworth, George Reed, Engrg. Mgr., Gray & Davis, Inc.
- Walworth, Arthur C., Pres., Malleable Iron Fittings Co. of Branford, Conn., 100 Pearl St.
- Warner, Robt. L., Warner, Tucker & Co., 85 Devonshire St.
- Watson, Wm., Secy. Am. Academy Arts and Sciences, 107 Marlborough St.
- Wattles, Joseph Warren, 3d (Junior), Commer. Engr. Sales Dept., Edison Elec. Ill. Co., 39 Boylston St.
- Weld, Alfred O., Mech. Engr., George A. Weld Co., 79 Milk St.
- Whiting, Charles W., Cons. Engr., 33 Broad St.
- Williams, Fay Bailey (Junior), Mech. Engr., Lamson Co., 161 Devonshire St.
- Williams, Llewellyn, Suptg. Engr., United Fruit Co., 131 State St.
- Williston, Arthur L., Prin., Wentworth Inst.
- Williston, Belvin Thomas, Wks. Mgr., United Injector Co., 23 Watson St.
- Winship, W. E., V. P., Adamant Battery Co., 363 Dorchester Ave.
- Winsor, Paul, Mech. and Elec. Engr., Ch. Engr., Boston Elevated Ry. Co., 101 Milk St.
- Winther, Chas. A. G., Pres. and Mgr., Chas. A. G. Winther Co., Inc., 91 High St.
- Woodbury, C. J. H., Cons. Engr., 45 Milk St.
- Brockton.**—Washburn, William S., 1363 Main St., Campello Sta.
- Brookline.**—Appleton, Chas. B., Mech. Engr., Netherlands Rd.
- Kenrick, Alfred Eugene, Kenrick Bros., 214 Washington St.
- Morse, William H., 31 Pleasant St.
- Newcomb, Edward C., Cons. Engr. and Inventor, Holtzer-Cabot Elec. Co., and Am. Loco. Co.
- Pendergast, Roland Ball, 33 Summit Ave.
- Cambridge.**—Blakeman, Winfield Wellington, Supt., The Blanchard Mch. Co.
- Burke, Walter Safford, Harvard College.
- Choate, William E., Genl. Mgr., Carr Fastener Co., 31 Ames St.
- Crothers, Charles Edward, Jr. (Junior), Mech. Engr., 1663 Cambridge St.
- Dunn, Chas. W., Robert W. Hunt & Co.
- Gale, Horace B., Ch. Engr., Simplex Electric Heating Co.
- Gay, Harry, Equip. Engr., Stone & Webster Engrg. Corp., New Technology Bldgs., Charles River Rd.
- Kennedy, F. Lowell, Asst. Prof. Engrg. Drawing, Harvard Univ.
- Leavitt, E. D., Cons. Engr., Ret., 33 Garden St.
- Long, Jeremiah C., Ch. Engr., Boston Woven Hose & Rubber Co.
- Markham, Edward R., Instr. Mech. Engrg., Harvard Univ., and Rindge Tech. Sch.
- Marks, Lionel S., Prof. Mech. Engrg., Harvard Univ.
- Mellen, Edwin D., Central Sq.
- Nelson, Eric Hugo, Ch. Draftsman, Geo. F. Blake Mfg. Co.

MASSACHUSETTS, Cambridge (Continued).

Norton, Arthur Edwin, Asst. Prof. Mech. Drawing, Harvard Univ.

Pearson, Charles Ivar, Mech. Draftsman and Designer, 36 Trowbridge St.

Rote, John G. (Junior), 3 Dana St.

Swain, George F., Cons. Engr., Chairman Boston Transit Com., Cons. Engr., Mass. R. R. Com., Prof. Civ. Engrg., Graduate Sch. Applied Science, Pierce Hall, Oxford St., Harvard Univ.

Thompson, C. Bertrand, Instr. in Industrial Management, Harvard Univ., University 17, and Cons. Management Engr., Eaton, Crane & Pike, Pittsfield.

Whiting, S. B., 11 Ware St.

Yates, Sheldon Smith (Junior), Instr. Civ. Engrg., Harvard Graduate Sch. of Engrg., Pierce Hall.

Charlestown.—Goldsmith, Clarence, Asst. Engr. in Charge High Pressure Fire Service, Public Wks. Dept., City of Boston, 1 City Sq.

Chelsea.—Larkin, William H., Jr., Mech. Engr., Revere Rubber Co.

Chicopee.—Jenness, Chas. Harvey, Instr. Mech. Drawing, Manual Training Dept., Chicopee H. S.

Chicopee Falls.—Squire, Raymond Samuel (Junior), Engr. of Tests, Engrg. Dept., Stevens-Duryea Co.
Whiteside, Walter Hunter, Stevens-Duryea Co.

Dorchester.—Bixby, Walter (Junior), 126 Rosseter St.
Chandler, Howard T., Asst. Supt., Walter Baker & Co., Ltd.
Dow, Charles E. W., 7 Standish St.
Hawes, Joseph Henry, Instr. in Manual Arts, Dorchester High Sch.

Miesel, Otto C. F. (Junior), 10 Upland Ave.

Murphy, Frederick E., 31 Sagamore St.

East Boston.—Middleton, Percy Howe, Engr. and V. P., The Crandall Eng. Co., 102 Border St.

Monteagle, Robt. Chas., Asst. Mgr. and Engr., The Lockwood Mfg. Co.

Norris, Almon E., Ch. Engr., Mead-Morrison Mfg Co., Prescott and Orleans Sts.

Robinson, Edward P., Supt., Atlantic Wks., 80 Border St.

Tobey, Wm. L., Prop., Thermex Silencer Wks., 9 Lewis St.

Wilson, Archibald H., Mead-Morrison Mfg. Co.

East Bridgewater.—McLean, Robert Walter, Mech. Engr., Carver Cotton Gin Co.

East Cambridge.—Aborn, George P., Mgr., Blake & Knowles Steam Pump Wks.

Murray, Arthur F. (Junior), Equip. Engr., Blake & Knowles Steam Pump Wks.

Parker, Austin Wilbur, Mech. Engr., Blake & Knowles Steam Pump Wks.

Worcester, H. E., Supt., Revere Sugar Refinery.

East Walpole.—Lockery, Charles E., Staff Asst., F. W. Bird & Co.

Fall River.—Gifford, George Nathan (Junior), Asst. Mech. Engr., Am. Ptg Co.

Gilmore, George Parley, Mech. Engr., Am. Ptg. Co.

Henry, William Thomas, P. O. Box 152, and 30 Borden Blk.

MASSACHUSETTS (Continued).

- Fitchburg.**—Barnes, William O., Mech. Engr., Iver Johnson Arms & Cycle Wks.
 Chasteney, Charles D. (Junior), Asst. Mgr. and Mech. Engr., Louis Dejonge Co.
 Dillon, Frederick N., Treas., D. M. Dillon Steam Boiler Wks.
 Purinton, Jacob W. (Junior), Draftsman and Engr., D. M. Dillon Steam Boiler Wks.
 Sheldon, Thos. C., Secy. and Treas., Fitchburg Duck Mills.
- Florence.**—Torrance, Chas. Everett, Jr. (Junior), Mech. Engr., Norwood Engrg. Co.
- Gloucester.**—Campbell, Jeremiah.
- Greenfield.**—Harris, Harry E., Genl. Supt. Tap and Die Plant, Wells Bros. Co.
 Hawks, Arthur S., Box 20.
 Smith, Herbert James (Junior), Supt., Russell Mfg. Co.
 Wells, Frank O., Pres., Wells Bros. Co.
- Haverhill.**—Nichols, Melville Terry, 46 Mt. Vernon St.
- Holyoke.**—Baldwin, Alden Welling (Junior), Engrg. Dept., The Deane Steam Pump Co.
 Chase, Henry Mayo, Mech. Engr., Deane Steam Pump Co.
 Fleming, Wills M., Engr. in Charge Drawing Room, Deane Steam Pump Co.
 Fliegelman, David (Junior), Engrg. Dept., Deane Steam Pump Co.
 Lambson, DeWitt Clinton, Local Mech. Engr., Am. Thread Co.
 Metcalf, Frank Hamilton, Asst. Genl. Mgr., Farr Alpaca Co.
 Newcomb, Chas. L., Pres., Mech. Engr. and Genl. Mgr., Deane Steam Pump Co.
 Newcomb, Robert E. (Junior), Asst. Supt. and Mech. Engr., Deane Steam Pump Co.
 Richardson, Ammi Carleton (Junior), Engrg. Dept., Am. Thread Co., 549 Main St.
 Sears, Frank M., Treas. and Mgr., Holyoke Steam Boiler Wks.
- Hopedale.**—Burbank, Louis S., Asst. Ch. Draftsman, M. E. Draper Co.
- Hyde Park.**—Bentley, O. D. H., Mgr. Turbine Dept., B. F. Sturtevant Co.
 Latham, Harry M., Mgr. Power Apparatus Dept., B. F. Sturtevant Co.
 Leonard, Merton S., Ch. Engr., B. F. Sturtevant Co.
 Suck, Adolph, Arch. and Engr., 94 Arlington St.
- Indian Orchard.**—Cook, Harry Hall (Junior), Engr., The Chapman Valve Mfg. Co.
 Shirley, Robert, Wks. Mgr., Chapman Valve Mfg. Co.
- Jamaica Plain.**—Glass, William Clement (Junior), United Ptg. Mchy. Co.
- Lancaster.**—Richardson, George Edward.
- Lawrence.**—Diman, Geo. Henry, Cons. Engr., Wood Worsted Mill.
 Eichler, Walter G. (Junior), Asst. Mech. Engr. Worsted Dept., Pacific Mills.
 Emerson, H. B., Supt. of Mech. Dept., Arlington Mills.
 Knowlton, Winfield B., Ch. Draftsman, Am. Woolen Co.
 Mellor, Hiram L., Pres. and Mgr., Lawrence Pump & Eng. Co.
 Parker, Walter Edward, Agt., Pacific Mills.
 Schwarz, Franz H. (Junior), Mech. Engr., Lower Pacific Mills.
 Smith, Charles P. (Junior), Worsted Dept., Pacific Mills.

MASSACHUSETTS, Lawrence (Continued).

Whitney, William S., Supervising Engr., Am. Woolen Co.

Lec.—Stevenson, Louis T. (Junior), Engr., Mountain Mill Paper Co.

Lexington.—Watson, Frank (Junior).

Lowell.—Ames, Geo. Edgar, Mech. Supt., Lawrence Mfg. Co.

Curley, Robert Sylvester (Junior), Mech. Engr. Kitson Plant, Saco-Lowell Co.

Keables, Austin Dow (Junior), with John A. Stevens, Engr., 107 Merrimack St.

Nourse, Franklin, P. O. Box 1236.

Perkins, G. Hawthorne, Head Textile Engrg. Dept., Lowell Textile Sch.

Richardson, Alfred S., 161 School St.

Safford, Arthur Truman, Asst. Engr., Locks and Canals, Cons. Hyd. Engr., 66 Broadway.

Stevens, John A., Cons. Engr., 107 Merrimack St.

Thomas, Edward W., Agt., Boott Mills.

Thompson, Albert W., Supt., Saco-Lowell Shops.

Wilson, Chester Worcester (Junior), Saco-Lowell Shops.

Ludlow.—Bennett, Geo. G., Mill Supt., Ludlow Mfg. Associates.

Fogler, Ben Baker (Junior), Efficiency Engr., Ludlow Mfg. Associates, Lock Box 88.

Morrill, Harley Winslow, Genl. Supt., Ludlow Mfg. Associates.

Scott, Edgar G., Supt. of Power and Repair Shops, Ludlow Mfg. Associates.

Stevens, Sidney, V. P., Ludlow Mfg. Associates.

Weidner, Paul G., Ludlow Mfg. Associates.

Lynn.—Carroll, M. B. (Junior), Turbine Sales Dept., Genl. Elec. Co., Bldg. 64; also, Schenectady, N. Y.

Johnson, Werner, Asst. Engr. Turbine Dept., Genl. Elec. Co.

Loewenstein, Louis C., Engr., Genl. Elec. Co.

Loring, Ernest Johnson, Genl. Elec. Co.

Nusim, Melach I., Turbine Engrg., Genl. Elec. Co.

Malden.—Clark, Myron Henry, Asst. Supt. of Factories, Boston Rubber Shoe Co.

Mansfield.—Bannon, Leo Matthew (Junior), 121 Oakland St.

Marblehead.—Curtis, Greely S., Treas., Burgess Co. & Curtis.

Medford.—Svensen, Carl Lars (Junior), 166 Main St.

Melrose.—Brooks, Edwin C., 353 Grove St.

Methuen.—Hartshorne, William Davis, Mill Engr., 40 Pleasant St.

Mittineague.—Franklin, Benjamin Alvey, V. P., Strathmore Paper Co.

Konstankewicz, Michael John (Junior), Mech. Engr., Strathmore Paper Co.

Williamson, George E., Ch. Engr., Strathmore Paper Co.

Neponset.—Hibbard, Thomas, Treas. and Mech. Engr., Geo. Lawley & Sons Corp.

New Bedford.—Connell, John J., Agt., Booth Mfg. Co.

Cushman, Herbert E., Treas. and Genl. Mgr., Morse Twist Drill & Mch. Co.

Davenport, Wm. S., Treas., Davenport Mch. Tool Co., 90 S. Sixth St.

Gladding, Wanton Martin, Mech. Supt., Morse Twist Drill & Mch. Co., 170 Pleasant St.

Reed, Fred M., Mech. Engr., Morse Twist Drill & Mch. Co.

MASSACHUSETTS, New Bedford (Continued).

- Stetson, George R., Pres. of Bd. of Dirs., New Bedford Gas & Edison Light Co., 121 Middle St.
- Newburyport.**—Blood, John Balch, 232 High St.
- Newton Highlands.**—Thompson, Sanford E., Cons. Engr., Odd Fellows Bldg., and Oliver Bldg., 141 Milk St., Boston.
- Newton Upper Falls.**—Banfield, Frederic E., Jr. (Junior), Asst. Supt., Saco-Lowell Shops.
- Mills, Charles, Cons. Engr., Saco-Lowell Shops.
- North Adams.**—Hunter, James D., V. P., Hunter Mch. Co.
- North Andover.**—Rockwell, Samuel Forbes, Mfg. Supt., Davis & Furber Mch. Co.
- North Brookfield.**—Richards, Thomas Gleason, Pres. and Mgr., B. & R. Rubber Co.
- North Plymouth.**—Damon, John H., M. M., Plymouth Cordage Co.
- Norwood.**—Adam, William Joseph, Mech. Engr., The Plimpton Press.
- Guillo, Harry Prescott, Supt., Geo. H. Morrill Co.
- Nute, Edwin Lee (Junior), Genl. Supt., Winslow Bros. & Smith Co.
- Orange.**—Stults, William Ralph (Junior), Draftsman, Chase Turbine Mfg. Co.
- Palmer.**—Wesson, Paul Bancroft, Mech. Supt., Wright Wire Co.
- Pittsfield.**—Abbott, Chas. Carroll, Cons. Engr., Triumph Voting Mch. Co.
- Blasdell, Arthur F., Mfg. Supt., Genl. Elec. Co.
- Francis, Charles A., Genl. Elec. Co.
- Power, Pomeroy W., Mech. Engr., Genl. Elec. Co.
- Robbins, John L. (Junior), Mech. Engr., Robbins, Gamwell & Co.
- Thomas, William Russell, Mech. Engr. and Supt., E. D. Jones & Sons Co., 25 Depot St.
- Quincy.**—Crain, John J., Elec. Engr., Fore River Shipbuilding Corp.
- Shelburne Falls.**—Mackenzie, Edmund, Mech. Engr.
- South Boston.**—Blood, Chas. W. H., V. P. and Treas., S. A. Woods Mch. Co., Damrell St.
- Gibson, Frederick M., Ch. Engr. Stand. Refinery, The Am. Sugar Refining Co., 47 Granite St.
- Tilden, James A., Genl. Mgr., Hersey Mfg. Co.
- South Easton.**—Cushing, Ralph Atherton, Mech. Engr. and Estimator, Easton Mch. Co.
- South Framingham.**—Butcher, Joseph J., Cons. Engr. Motor Truck Dept., Guiler Engrg. Co.
- Scott, Henry Francis, M. M., Dennison Mfg. Co.
- Southbridge.**—Bailey, Harry E. B., Engr. of Wks., Am. Optical Co.
- Day, George H., Asst. Supt., Am. Optical Co.
- Vaughan, Aubrey W. (Junior), Industrial Engr., Am. Optical Co.
- Springfield.**—Barstow, Francis Loring, Engr., Leitch & Barstow, Engrs., 374 Main St.
- Baush, William H., Sales Mgr., Natl. Equip. Co.
- Bliss, Charles Eugene, Member of Firm, Bliss & Lavalley, 274 Main St.
- Craig, Charles H., Jr., Member of Firm, McClintock & Craig, 33 Lyman St.

MASSACHUSETTS, Springfield (Continued).

- Curtis, Walter Molbray, Mgr. Engrg. Dept., N. E. Audit Co.
 Damon, Walter Henry, Supt. of Generating, United Elec. Light Co., 32 Bancroft St.
 Ferguson, Milford B., Supt., Package Mchy. Co., Birnie Ave. and Portland St.
 Galloway, Charles Douglas, Mgr. Storage Battery Plant, The Witherbee Igniter Co.
 Green, Samuel M., Cons. Engr., Samuel M. Green Co., Stearns Bldg., 293 Bridge St.
 Gurney, Erving R., Ch. Engr., Martin Tractor Co., 26 Mason St.
 McClintock, Edward H., Engr. and Arch., McClintock & Craig, 33 Lyman St.
 Pellissier, George E., Genl. Mgr. and Treas., Pellissier Engrg. Co., 21 Besse Pl.
 Rider, Thomas J., Mech. Engr., Rider-Bagg Co.
 Ryder, Malcolm P., Engr., Witherbee Igniter Co., Birnie Ave. and Arch St.
 Stowell, Byron F., M. M., The Hendee Mfg. Co.
 Wilcox, Joseph, Jr. (Junior), Mch. Designer, Package Mchy. Co.
- Taunton.**—Cutter, George Albert, Genl. Mgr., Cell Drier Mch. Co.
 Greensmith, Jas. E., Genl. Supt., Mason Mch. Wks.
 Robertson, Charles James, Designer of Printers' Mchy., Huber Hodgman Ptg. Press Co.
- Tufts College P. O.**—Anthony, Gardner C., Dean Engrg. Sch., Tufts College.
 Chase, Charles H., Prof. Steam Engrg., Tufts College.
- Turners Falls.**—Moody, Herbert A., Res. Engr., The Turners Falls Co.
- Walpole.**—Bonney, Herbert Marshall (Junior), Ch. Draftsman, L. F. Fales.
 Lewis, Arthur Laighton (Junior), with L. F. Fales.
- Waltham.**—Cassidy, Andrew George, M. M., Waltham Watch Co.
 Duveneck, Francis B. (Junior), Lyman St.
 Eaton, Henry Chas., Asst Supt., Waltham Watch Co.
 Folsom, Eugene L., Supt. Statistics, Waltham Watch Co.
 Monaghan, James F., Cons. Engr., Mech. Engr., Waltham Bleachery & Dye Wks.
 Ohlson, Olof, Mech. Supt., Waltham Watch Co.
- Watertown.**—Bitterlich, Walter J. (Junior), Asst. M. M., Hood Rubber Co.
 Erlandson, Emil William (Junior), Charge of Engrg., Mass. Fan Co.
- Webster.**—Doane, John Appleton, Mech. Engr., Prescott Auto Parts Co.
- Wenham.**—Cunningham, Thos.
- West Lynn.**—Alexander, Magnus W., Genl. Elec. Co.
 Baldwin, Henry Sill, Mech. Engr., Genl. Elec. Co.
 Campbell, Gordon M., Turbine Dept., Genl. Elec. Co.
 Hall, Walter Atwood, Asst. to Mgr., Lynn Wks., Genl. Elec. Co.
 Moss, Sanford A., Engr. Turbine Research Dept., Genl. Elec. Co.
 Pentz, Albert D., Box 33.
 Pohle, Richard Franz (Junior), Asst. to Ch. Draftsman, Genl. Elec. Co.

MASSACHUSETTS, West Lynn (Continued).

Rice, Richard H., Genl. Elec. Co.

Warren, Aldred Kennedy, Mfg. Engr., Genl. Elec. Co.

West Newton.—Marshall, Norman, Cons. Engr., 107 Chestnut St.

Westfield.—Cushing, Geo. H., Genl. Supt., H. B. Smith Co.

Mitchell, Guy Edward, Gillett Bldg., cor Arnold and Elm Sts.

Rau, Frank B., Asst. Mgr. Westfield Factory, Pope Mfg. Co.

Starr, Frederick W., Asst. Mgr. Sales, Pope Mfg. Co.

Whitinsville.—Brown, Stuart F. (Junior), Supt's. Office, Whitin Mch. Wks.

Winchendon.—Whitney, Baxter D., Partner, Baxter D. Whitney & Son.

Whitney, Wm. M.

Winchester.—Hart, Robert W., 11 Glengarry.

Wollaston.—Stevens, Jesse F., 14 Prospect Ave.

Worcester.—Alden, George I., Pres., Norton Co., and Pres. and Genl. Mgr., Norton Grinding Co.

Allen, Charles M., Prof. Hyd. Engrg., Worcester Poly. Inst.

Beth, Hugo W. H., Operating Engr., Norton Co.

Bird, William W., Prof. Mech. Engrg. and Dir. Washburn Shops, Worcester Poly. Inst.

Brock, Clarence A. (Junior), 56 Bowdoin St.

Burgess, A. Bradley, Genl. Mgr. Stand. Plunger Elev. Co., Box 254.

Carroll, Elbert Henry, Supt., Morgan Constr. Co., 21 Lincoln St.

Coghlin, John P., Pres. and Treas., Coghlin Elec. Co., 257 Main St.

Darling, Albert Willis, Mech. Engr., Graton & Knight Mfg. Co., 356 Franklin St.

Dietz, Carl F., Advisory Engr. and Asst. Sales Mgr., Norton Co.

Dunn, Edward Lee, Ch. Engr., Stand. Plunger Elev. Co.

Edwards, Victor E., V. P., Morgan Constr. Co., 21 Lincoln St., Sta. A.

Fairfield, Howard P., Instr., Worcester Poly. Inst.

Gallagher, Robert Thomas, Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co.

Gallup, David L., Cons. Auto. Engr., Prof. Gas Engrg. Worcester Poly. Inst.

George, Jerome R., Ch. Engr., Morgan Constr. Co., 21 Lincoln St.

Gifford, Albert J. (Junior), Partner, Leland-Gifford Co.

Gillett, Charles Elliot (Junior), Charge Mech. Div. Research Labs., Norton Co.

Gilman, Franklin W. (Junior), Sanford Riley Stoker Co., 947 Slater Bldg.

Gordon, Albert Anderson, Jr., Supt., Compton & Knowles Loom Wks.

Higgins, John W., Pres. and Treas., Worcester Pressed Steel Co., North Ave.

Hill, Edgar Logan (Junior), Supt. Elec. Cable Wks., Am. Steel & Wire Co., P. O. Box 553.

Hodge, Wm. W. (Junior), Asst. Supt. Elec. Cable Wks., Am. Steel & Wire Co.

Hollis, Ira N., Pres., Worcester Poly. Inst.

Hutchins, George Francis, Genl. Supt., Crompton & Knowles Loom Wks.

MASSACHUSETTS, Worcester (Continued).

- Jefferies, E. A. W., Mech. Engr., Morgan Constr. Co.
 Jenckes, Lawrence Bates, Engr., Crompton & Knowles Loom Wks.
 Jeppson, George Nathaniel, Wks. Mgr., Norton Co.
 Larsson, Thure L. F., Mech. Engr., 34 Holden St.
 Logan, James, First V. P. and Genl. Mgr., U. S. Envelope Co., 75 Grove St.
 Lummis, Charles W., Asst. Mgr. Gas Producer Dept., Morgan Constr. Co.
 Montague, Wallace T. (Junior), Member Mech. Dept., Research Labs., Norton Co.
 Morgan, Paul B., Treas., Morgan Constr. Co., 21 Lincoln St.
 Morgan, Ralph Landers, Cons. Engr., 452 Main St.
 Norton, Charles H., Mech. Engr., Norton Grinding Co.
 Norton, Fred Elmer, Mech. Engr., 656 Main St.
 Parker, Chas. D., Mech. Engr., A. Burlingame Co., 22 Cypress St.
 Rawson, Louis W., Supt., The Washburn Shops, Worcester Poly. Inst.
 Read, Carleton A., Prof. Steam Engrg., Worcester Poly. Inst.
 Reed, Chester Turner (Junior), Pur. Engr., Reed & Prince Mfg. Co.
 Reed, Edgar Howard, Supt., Reed & Prince Mfg. Co., Duncan Ave.
 Rice, Alva C., Cons. Hyd. and Mech. Engr., 5 Oberlin St.
 Riley, R. Sanford, Pres., Sanford Riley Stoker Co., Ltd., 314 Main St.
 Rockwood, Geo. I., Cons. Engr., 38 Harlow St.
 Scott, Geo. H., Mgr., Union Mch. Co., 98 Union St.
 Searle, Wilbur C. (Junior), Foreman Miscellaneous Dept., Norton Grinding Co.
 Simeon, Charles John, Production Engr., Reed-Prentice Co.
 Smith, Alton Lincoln, Prof. Drawing and Mch. Design, Worcester Poly. Inst.
 Smith, Harold B., Prof. Elec. Engrg., Dir. Elec. Engrg. Dept., Worcester Poly. Inst.
 Smith, James W., Factory Mgr., Wyman Gordon Co.
 Tredwell, Kenneth Irving (Junior), Stand. Plunger Elev. Co.
 Turner, Charles H. (Junior), Mech. Engr., Osgood Bradley Car Co.
 White, James A. (Junior), Wks. Mgr., Worcester Pressed Steel Co.
 Williams, Richard Grant (Junior), Safety Engr., Norton Co.
 Wyman, Horace, Cons. Engr., 20 Harvard St.

Woronoco.—Toucey, Ralph Edward (Junior), Strathmore Paper Co.

MICHIGAN

- Ann Arbor.**—Allen, John Robins, Prof. Mech. Engrg., Univ. of Mich., 221 New Engrg. Bldg.
 Anderson, Henry Clay, Prof. Mech. Engrg., Univ. of Mich., Engrg. Bldg.
 Bursley, Joseph Aldrich, Junior Prof. Mech. Engrg., Univ. of Mich.
 Cooley, M. E., Dean Depts. Engrg. and Arch., Univ. of Mich.
 Emswiler, John Edward (Junior), Asst. Prof. Mech. Engrg., Univ. of Mich., New Engrg. Bldg.

MICHIGAN, Ann Arbor (Continued).

Fessenden, Chas. Horace (Junior), Asst. Prof. Mech. Engrg., Univ. of Mich., 333 New Engrg. Bldg.

Keeler, Hugh Edward (Junior), Teaching Asst. in Mech. Engrg., Univ. of Mich., 239 New Engrg. Bldg.

Miggett, William Lincoln, Prof. Shop Practice and Supt. Engrg. Shops, Univ. of Mich.

Verner, William Franklin, Asst. Prof. Mech. Engrg., Univ. of Mich.

Zowski-Zwierzchowski, S. J., Prof. Mech. Engrg., Univ. of Mich., 327 New Engrg. Bldg.

Battle Creek.—Bird, John C., Mech. Engr., Union Steam Pump Co.

Dean, Edmund Willard, Ch. Draftsman, Duplex Ptg. Press Co.

Duerner, Henry L., Jr., Mech. Engr., 84 Fremont St.

Galloway, Thomas, Mech. Engr., 18 Wendell St.

Hawthorne, Primm R., Asst. Supt., Nichols & Shepard Co.

Hvid, Rasmus M., V. P., R. M. Hvid Co., Old Natl. Bank Bldg.

Metcalf, F. M., Mech. Engr., Am. Steam Pump Co.

Vail, Guy Randall, Supt. and Mech. Engr., Advance Pump &

Compressor Co.

Bay City.—Howlett, Lewis G. (Junior), Supt., Industrial Wks.

Perry, Ernest B., Mgr., Industrial Wks.

Beacon Hill.—Koepel, Edward, Supt. Stamp Mills, Copper Range Consld. Co.**Benton Harbor.**—Capen, Thomas W., 748 Ogden Ave.**Calumet.**—McIntosh, Robert, Engr., Calumet & Hecla Min. Co.

Williams, Howard E., Ch. Draftsman, Calumet & Hecla Min.

Co.

Detroit.—Alden, Herbert W., Ch. Engr., The Timken-Detroit Axle Co., Clark Ave.

Baldwin, Abram T., Pres. and Genl. Mgr., Precision Instrument Co., 102 Randolph St.

Barber, Clarence M., Civ. Engr., Smith, Hinchman & Grylls.

Barnes, Stuart Gray, Mgr., Solvay Process Co.

Barton, Henry L., Asst. Dir. of Production, Genl. Motors Co., Cor. Brush and Congress Sts.

Beall, Frank F. (Junior), Factory Mgr., Packard Motor Car Co.

Bennett, Joseph A., Chalmers Motor Co.

Bigelow, Frank B., Sales Mgr., Murphy Iron Wks.

Bingham, Elbert Howard, Wks. Mgr., The Solvay Process Co.

Bornholt, Oscar Charles, M. M., Maxwell Motor Co.

Bourquin, James F. (Junior), Genl. Mgr., Paige-Detroit Motor Car Co.

Boyer, Joseph, Pres., Burroughs Adding Mch. Co., Burroughs and Second Aves.

Breneman, Paul Edward (Junior), Engrg. Dept., Nelson-Brennan-Peterson Co., Auto. Mfrs.

Burdick, Ellsworth J., Supt. of Power, Detroit United Ry., 12 Woodward Ave.

Burtsell, Bertram Ward, Asst. Factory Mgr., Packard Motor Car Co.

Carson, Charles M., Factory Mgr., Cadillac Motor Car Co.

Church, Harold Douglas, Truck Engr., Packard Motor Car Co.

Coffin, Howard E., V. P., Hudson Motor Car Co.

Conant, Wm. S., Cons. Engr., Bank Chambers, 80 Griswold St.

MICHIGAN, Detroit (Continued).

- Coon, Thurlow E. (Junior), Mech. Engr., The Coon-De Visser Co., 1924-1925 Ford Bldg.
- Copland, Alexander William, Pres. and Genl. Mgr., Detroit Gear & Mch. Co.
- Cox, Claude E., Res. Dir. Commercial Engrg. Labs., 88 Congress St., E.
- Cummins, Peter Augustine (Junior), Spec. Apprentice, Shop Practice, Detroit Steel Products Co.
- Cushman, Arthur Wesley (Junior), Supt., Parker Webb & Co., Michigan and 20th Sts.
- Davock, Harlow N. (Junior), Mgr., Davock Bldg. Co., 1519 Woodward Ave.
- Decker, Edward P., Pres., E. P. Decker & Co., 80 Griswold St.
- Doughty, A. J., 45 Virginia Park.
- Dow, Alex, Pres. and Genl. Mgr., Edison Ill. Co., 18 Washington Ave.
- Driver, Arthur (Junior), Packard Motor Car Co.
- Dunham, George W., V. P. and Cons. Engr., Chalmers Motor Co.
- Dwyer, Emmet (Junior), Asst. Supt., Mich. Stove Co.
- Eayrs, Thomas C. (Junior), Mgr. Ry. and Ltg. Dept., Westinghouse Elec. & Mfg. Co., 27 Woodward Ave.
- Esselstyn, Horace H., Constr. Engr., The Edison Ill. Co., 18 Washington Ave.
- Farmer, Thomas, Warner & Swasey Co., 1614 Ford Bldg.
- Fekete, Stephen I. (Junior), Engrg. Dept., Hudson Motor Car Co.
- Fortune, John Robert, Ch. Engr., Murphy Iron Wks.
- Freund, Walter F. W. (Junior), Power Efficiency Engr., Morgan & Wright.
- Gernandt, Waldo George (Junior), Cons. Engr., cor. Bates and Atwater Sts.
- Hargreaves, Robert Cattle (Junior), 53 Rowena St.
- Haynes, Harris Hasbrouck (Junior), Tech. Service Dept., Packard Motor Car Co.
- Hazelton, William S., V. P. and Engr., Andrew J. Smith Co., 18 Campan Bldg.
- Hess, Samuel P. (Junior), Asst. to Mgr. Motor Spring Dept., Detroit Steel Products Co.
- Hill, John W., Mech. and Sales Engr., Bantam Anti-Friction Co., 525 Dime Bank Bldg.; also, Providence, R. I.
- Hill, Reuben, Factory Mgr., Detroit Lubricator Co.
- Hinchman, Theodore H., Jr., Cons. Engr., 708 Washington Arcade.
- Hodge, Harry S., 83 Alfred St.
- Holmes, Harold W. (Junior), Genl. Mgr., The Puritan Brick Co., V. P., The Detroit Tool Co., 1325 Penobscot Bldg.
- Jackson, Roscoe B. (Junior), Treas. and Genl. Mgr., Hudson Motor Car Co.
- Jehle, Ferdinand (Junior), Engr., Commercial Engrg. Labs., 88 Congress St., E.
- Johnson, Frank, Eng. Designer, Cadillac Motor Car Co.
- Joy, Francis B., Genl. Mgr., Detroit Htg. & Ltg. Co.
- Kahn, Julius, Pres., Trussed Concrete Steel Co., Trussed Concrete Steel Bldg.
- Kales, Wm. Robert (Junior), Ch. Engr., Whitehead & Kales Iron Wks., Beecher Ave. and Mich. Central R. R.

MICHIGAN, Detroit (Continued).

- Keep, William John, Cons. Engr., The Mich. Stove Co.
 Keller, E. E., Pres., Detroit Insulated Wire Co.
 Kirby, Frank E., Engr., 609 Stevens Bldg.
 Knight, Alfred H., Asst. Engr., Packard Motor Car Co.
 Kryzanowsky, Constant J., Mech. Engrg. Dept., Genl. Motors Co.
 Lane, Henry Marquette, Cons. Fdy. Engr., Pres., The H. M. Lane Co., 18 Piquette Ave., E.
 Layng, George Henry, Supt. of Main Plant, Cadillac Motor Car Co., 1343 Cass Ave.
 Leland, Henry Martin, Genl. Mgr., Cadillac Motor Car Co., 1343 Cass Ave.
 Leland, Wilfred C., Genl. Mgr., Cadillac Motor Car Co.
 Lester, Clarence R., Mgr. Tech. Service Dept., Packard Motor Car Co., Grand Blvd.
 Luehrs, Daniel Michael (Junior), Engr. in Charge Air Washer Dept., Am. Blower Co.
 Lyon, Tracy, Genl. Mgr., Cricket Cycle Car Co., 88 Congress St., E.
 McColl, J. R., Member of Firm, Ammerman, McColl & Anderson, Cons. Engrs., 1310 Penobscot Bldg., and Dean Engrg. Dept., Univ. of Detroit.
 MacGregor, Walter, 430 W. Grand Blvd.
 Mason, Frederick H., Spec. in Feed Water Purification and Htg. Power Plant Spec., Brick and Concrete Chimney Constr., 614 Moffat Bldg.
 Matter, Edward Guy, Mgr., The Natl.-Acme Mfg. Co., 1327 Majestic Bldg.
 Mattsson, A. George, Cons. Engr., Great Lakes Engrg. Wks.
 Meyer, Erwin Charles (Junior), Engr., Parish Mfg. Co., 1666 Mt. Elliott Ave.
 Morgana, Charles, Jr. (Junior), Charge of Mch. Tool Engrg. Dept., Ford Motor Co.
 Moyer, J. Ross (Junior), Supt. Complete Plant, Detroit Bridge & Steel Wks., River Rouge.
 Myers, Cornelius T., Cons. Engr., Motor Trucks and Automobiles, 202 Scherer Bldg.
 Nelson, Emil Andrew, Mech. Engr., 104 Park View Ave.
 O'Leary, Frank J., Mgr., Spec. Injectors Co., 611 Fort St., W.
 Oliver, E. C. (Junior), Factory Mgr., Detroit Instrument Co., 251 E. Jefferson Ave.
 Osborn, Francis Conrad, Pres. and Genl. Mgr., The F. C. Osborn Co., 45 E. Fort St.
 Parker, James Wentworth (Junior), Ch. Asst. Engr. Power Plants, The Edison Ill. Co., 18 Washington Ave.
 Parkhurst, Frederick A., Organizing Engr., The Aluminum Castings Co.
 Pessano, Antonio C., Pres. and Genl. Mgr., Great Lakes Engrg. Wks.
 Pinney, H. H., Mgr. of Wks., Chalmers Motor Co., Pres., Fairview Fdy. Co., V. P., Metal Products Co.
 Randall, Dwight T., Cadillac Motor Car Co.
 Reid, Edward Snover (Junior), Engr., No. Eng. Wks.
 Reinicker, Norman Graves (Junior), Boiler Rm. Engr., Delray Power Houses, The Edison Ill. Co.
 Richards, Chas. Dexter (Junior), Asst. Engr. of Tests, Solvay Process Co.

MICHIGAN, Detroit (Continued).

- Roberts, Edward Francis, Genl. Supt., Packard Motor Car Co.
 Rogers, Lewis C., Exper. Engr., The Solvay Process Co.
 Ross, John L., Owner, Ross & Young Mch. Co., McDougall and Jefferson Aves.
 Russel, Walter S., Pres. and Genl. Mgr., Russel Wheel & Fdy. Co., Chene St. and Belt Line R. R.
 Schoen, August, Mech. Engr. Charge Engrg. Dept., Larrowe Constr. Co.
 Sellow, William Hamilton, Prin. Asst. Engr., Mich. Central R. R.
 Shallcross, Watson Comly, Mgr., Caustic Soda Dept., Solvay Process Co.
 Shuler, Harvey A. (Junior), Dist. Mgr., Kinnear Mfg. Co., 709 Ford Bldg.
 Singleton, Arthur B. (Junior), Sales Engr., David M. Kerr Mchy. Co., 2317 Dime Bank Bldg.
 Smith, Donald Fuller (Junior), Engr. of Tests, Timken-Detroit Axle Co., Clark Ave.
 Smith, Ernest L., West. Rep., R. I. V. Co., 870 Woodward Ave.
 Smith, William H., 63 Burlingame Ave.
 Soper, Ellis, Pres., The Soper Co., 674 Woodward Ave.; also, Chattanooga, Tenn.
 Spice, Charles. Gordon (Junior), Carburetor Development Engr., Detroit Lubricator Co., Trumbull and R. R. Aves.
 Spillman, Harry St. Clair (Junior), Constr. Engr., Continental Motor Mfg. Co.
 Sprau, William C., Treas., Barnes Wire Fence Co., 775 Grand River Ave.
 Still, Frederick R., Ch. Engr. and Secy., Am. Blower Co.
 Stoddard, Elliott J., Expt., R. A. Parker, Pat. Lawyer, 607 Moffat Blk.
 Stringham, Joseph S., Mgr., Monarch Steel Castings Co., 800 Union Trust Bldg.
 Sweet, Charles E., Treas., Superior Mch. & Engrg. Co., 51-53 Fort St., E.
 Sweet, Ernest E., Cons. Mech. Engr. and Ch. Engr., Cadillac Motor Car Co.
 Taber, Melbert William, Constr. Engr., Packard Motor Car Co.
 Taylor, Cecil Hamelin, Cons. Engr., Taylor & Neuteboom, 518-520 Broadway Central Bldg.
 Trix, John, Pres., Am. Injector Co., 175 14th Ave.
 Vail, Jesse A., Chairman, Maxwell Motor Co., 973 Woodward Ave.
 Vincent, Jesse Gurney, Ch. Engr., Packard Motor Car Co., East Grand Blvd.
 Walker, Frederick Wiley, V. P. and Ch. Engr., Comstock, Haigh, Walker Co., Wayne Co. Bank Bldg.
 Whitaker, Henry E., Mech. Engr., Parke, Davis & Co.
 Wilcox, C. C. (Junior), Asst. to Cons. Elec. Engr., Hodenpyl, Hardy & Co., 2004 Dime Bank Bldg.
 Wills, C. Harold, Ch. Engr. and Factory Mgr., Ford Motor Co.
 Wilt, A. D., Jr., V. P. and Genl. Mgr., The Schweppe & Wilt Mfg. Co., Champlain and Meldrum Ave.; also, Pres., The Wilt Twist Drill Co. of Canada, Ltd., Walkerville, Canada.
 Wingo, Richard T., Pres., Superior Mch. & Engrg. Co., 51-53 Fort St., E.
 Wood, Erwin E., Salesman, Jones & Lamson Mch. Co.

MICHIGAN (Continued).

East Lansing.—Bissell, Geo. W., Prof. Mech. Engrg., and Dean of Engrg., Mich. Agri. College.

Kunze, Edward J., Asst. Prof. Mech. Engrg., in Charge of Mch. Design and Constr., Mich. Agri. College.

Polson, Joseph A., Assoc. Prof. Mech. Engrg., Charge Engrg. Lab., Mich. Agri. College, 201 Engrg. Bldg.

Flint.—Iddles, Alfred (Junior), Asst. Supt. of Mfg., Flint Gas Co.

Mott, Chas. Stewart, Pres., Weston Mott Co.

Gladstone.—Slining, George J., Supt., Cleveland Cliffs Iron Co.

Grand Rapids.—Cole, Dwight S., Cons. Engr. and Mech. Expt., 623 Ashton Bldg.

Freshney, Samuel Ambrose, Genl. Mgr., Grand Rapids-Muskegon Power Co.

Gifford, Byron T. (Junior), Ch. Engr., Am. Public Utilities Co.

Reeve, Charles D., V. P. and Factory Mgr., Grand Rapids Brass Co., 90 Scribner Ave.

Tower, Daniel W., Pres., Grand Rapids Brass Co., 90 Scribner Ave., N. W.

Young, John T., First V. P. and Genl. Mgr., Grand Rapids Gas Light Co., and V. P., Muskegon Traction & Light Co., Muskegon.

Houghton.—Corbett, R. H., Rep., Nordberg Mfg. Co.

Glanville, Jas. Gundry, Supt., Isle Royale Stamp Mill.

Hubbell.—Burgan, A. L., Mill Supt., Tamarack Min. Co., Osceola Consld. Mfg. Co., Ahmeek Min. Co.

Ishpeming.—McClure, O. D., M. M., Cleveland Cliffs Iron Co.

Jackson.—Allen, John L., Genl. Mgr., Jackson Motor Shaft Co.

Frost, Edward J., Pres. and Genl. Mgr., Frost Gear & Mch. Co., Horton and Tyson Sts.

Hopkins, George F., Frost Gear & Mch. Co.

McMullen, Vincent E., Genl. Supt., The Field-Brundage Co.

Maytham, Walter John, Cons. Engr., 761 W. Main St.

Kalamazoo.—Davis, John Francis (Junior), Asst. Supt., Bryant Paper Co.

Hansen, Thorvald H. C., Supt., Harrow Spring Co.

Lansing.—Mason, Clyde S., Jepson, Mason & Co.

Scott, Richard H., V. P., Reo Motor Car Co.

Seager, James B., Genl. Mgr., Seager Eng. Wks.

Thomas, Horace T., Ch. Engr., Reo Motor Car Co.

Marquette.—Miller, Richard Edward (Junior), Jos. Pickauds & Co.

Pearce, Ernest L., Mgr., Lake Shore Eng. Wks.

Muskegon.—Albert, Otto, Ch. Draftsman, Shaw Elec. Crane Co.

Bates, Albert Henry, Mech. Engr., 42 Jiroch St.

Sawyer, Harry, Cons. Engr., Shaw Elec. Crane Co.

Painesdale.—Rankin, William A., Elec. Engr., Copper Range Consld. Co.

Port Huron.—Kern, Fred Herbert (Junior), Ch. Engr., C. Kern Brewing Co.

Weber, O. L. E., Mgr., Mich. Sulphite Fibre Co.

Saginaw.—Adams, Thomas D. (Junior), Werner & Pfleiderer; also, Westport, Conn.

Fisher, Elbert C., V. P. and Genl. Mgr., Wickes Boiler Co.

Macdonald, Duncan H., Wks. Mgr., Wickes Bros.

MICHIGAN, Saginaw (Continued).

- Willcox, George Bingham, Pres. and Genl. Mgr., Willcox Engrg. Co., Willcox Engrg. Co. Bldg.
Sibley.—Church, Austin (Junior), Pres., Church Quarry Co.
Three Rivers.—Keith, Robert R., Asst. Supt., Sheffield Car Co.
 Linsley, Edward B., Mgr., Sheffield Car Co.
Vulcan.—Armstrong, Frank Hall, Mech. Engr., Penn Iron Min. Co., Republic Iron Co.
Wyandotte.—Orcutt, Guy Hall (Junior), Elec. Engr., Mich. Alkali Co.

MINNESOTA

- Duluth.**—Boyd, Ford E. (Junior), Mech. Engr. with Ch. Engr., Oliver Iron Min. Co., 714 Wolvin Bldg.
 Cornish, William Redmon (Junior), The Minn. Steel Co., 808 Wolvin Bldg.
 Fuller, Floyd M. (Junior), Cons. Engr., 812-814 Torrey Bldg.
 Hugo, T. W., Cons. Engr., 221 W. 6th Ave.
 McGiffert, John Rutherford, Secy. and Treas., Clyde Iron Wks.
 Olmsted, George C. (Junior), Mgr., Minn. Radiator Co.
 Rumsey, Spencer S., Ch. Engr., Oliver Iron Min. Co., 713 Wolvin Bldg.
 Ryerson, William N., Genl. Mgr., Great No. Power Co.
 Sheldon, Samuel B. (Junior), Genl. Supt., Minn. Steel Co., Wolvin Bldg.
 Wessinger, Henry J., Pres., Imperial Iron Wks.
Minneapolis.—Bogart, Albert Luther, Pres., Power Engrg. Co., 512 Corn Exch. Bldg.
 Bovey, William Howard, Genl. Supt. and Dir., Washburn Crosby Co., Chamber of Commerce.
 Brown, Edwin Hacker (Junior), Member of Firm, Hewitt & Brown, Archs. and Engrs., 716 Fourth Ave., S.
 Buffington, Harry Caldwell, Mech. Draftsman, Minneapolis Steel & Mchy. Co.
 Craig, Robert, Mgr., Power Equip Co., 212-218 Third Ave., N.
 Daniel, Thomas Lester, Shop Organizer, Diamond Iron Wks.
 Flather, John J., Prof. Mech. Engrg., Univ. of Minn.
 Forfar, Donald M. (Junior), Mgr. St. Paul Office, Charles L. Pillsbury Co., 805 Metropolitan Life Bldg.
 Garbett, Benjamin C., Secy., Twin City Mch. Co.
 Herrick, Carl Albert, Cons. Engr., 3816 Thomas Ave., S.
 Jones, Forrest S. (Junior), Engr. and Contr., Gouthier, Allan & Jones; also, Brooklyn, N. Y.
 Kavanaugh, Wm. H., Exper. Engrg., Univ. of Minn.
 Lang, Charles Arthur (Junior), Supt., The Northwestern Consld. Milling Co., "A" Mill, 1st St. and 5th Ave., S.
 Martenis, John Van Sickle, Asst. Prof. Mech. Engr., Univ. of Minn.
 Martin, Wallace Hope (Junior), Instr. Mech. Engrg., Univ. of Minn.
 Mayhew, Ray, Asst. Mech. Engr., Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave.
 Mueller, Herman F., Ch. Engr., Washburn Crosby Co.
 Otto, Robert Walter, Engr. in Charge Design and Constr., Andrews Htg. Co.
 Peterson, W. H., Sales Engr., Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave.

MINNESOTA, Minneapolis (Continued).

- Pillsbury, Charles Lucien, Mech. and Elec. Cons. Engr., 805 Metropolitan Life Bldg.
 Record, James L., Pres. and Genl. Mgr., Minneapolis Steel & Mchy. Co.
 Rose, Fred Wayland, Cons. Elec. and Mech. Engr., 470-475 Auditorium Bldg.
 Rowley, Frank B., Instr. Engrg. Drawing and Descriptive Geometry, Univ. of Minn.
 Shipley, S. Carl, Asst. Prof. Mch. Constr. and Supt. of Shops, Univ. of Minn.
 Stacy, Elmer Neill, Genl. Mgr., Decarie Incinerator Co., McKnight Bldg.
 Strong, Albert William, Pres. and Mgr., The Strong-Scott Mfg. Co., 413 S. 3d St.
 Teach, Jacob Arthur, Checker and Designer, Minneapolis Steel & Mchy. Co.
 Williams, Wilbur S. (Junior), Mech. Engr., The Wabash Screen Door Co., 2222 Elm St., S. E.
New Duluth.—Sampson, Charles C., Supt. Gas Power Sta., Minn. Steel Co.
St. Paul.—Beckjord, Walter C., Elec. Engr., St. Paul Gas Light Co.
 Brink, Harry Le Roy, First Asst. to Ch. Engr., Am. Hoist & Derrick Co.
 Crosby, Oliver, Managing Partner and Engr., Am. Hoist & Derrick Co.
 Doty, Paul, V. P. and Genl. Mgr., St. Paul Gas Light Co.
 Heinen, Emil Jennings, 707 Commerce Bldg.
 Johnson, Edward E., Mfr. Well Screens, 2304 Long Ave.
 Otto, Frederick Arthur, Supt. Elec. Dept., St. Paul Gas Light Co., 6th and Jackson Sts.
 Staude, Edwin G. (Junior), Pres. and Managing Dir., E. G. Staude Mfg. Co., 2675 W. University Ave.
 Stickney, Charles A., Pres., Charles A. Stickney Co.
 Toltz, Max, 1410 Pioneer Bldg.
 Tubby, Charles Walter, Dist. Mgr., Internatl. Steam Pump Co., 703 Commerce Bldg.
 Whitacre, Robert Bond, Senior Partner, R. B. Whitacre & Co., 205 S. Robert St.
 Wilhelm, Edward A., Ch. Draftsman, Am. Hoist & Derrick Co.
 Wood, William R., Engr. of Tests, Great No. Ry. Co.
Wayzata.—Parker, Roy Taylor (Junior), Supt., Campbell Motor Co.

MISSISSIPPI

- Agricultural College.**—Carpenter, Randle Churchill, Prof. Mech. Engrg., Supt. Power Plant, Miss. Agri. and Mech. College.
Canton.—Sharp, John Thomas, Jr. (Junior), Supt., Canton Elec. Light & Water Wks.
Gulfport.—Rollins, Henry Martin, Supt., Gulfport Creosoting Co.
Magnolia.—Kramer, Xavier A., Cons. Engr. and Arch.

MISSOURI

- Bonne Terre.**—Zach, Louis M. (Junior), Constr. Engr., St. Joseph Lead Co.

MISSOURI (Continued).

Columbia.—Fessenden, Edwin Allan (Junior), Assoc. Prof. Mech. Engrg., Charge of Dean's Office, Univ. of Mo.

Hibbard, H. Wade, Prof. Mech. Engrg., Univ. of Mo., 1307 Kaiser Ave.

Westcott, Arthur Lord, Asst. Prof. Mech. Engrg., Univ. of Mo.

Eldon.—Burleigh, William Henry (Junior), Genl. Foreman, Rock Island Lines.

Kansas City.—Brady, Joseph H., Ch. Engr., Bd. of Education, 514 Finance Bldg.

Cushman, Frank, Jr. (Junior), Vice-Prin., Manual Training H. S.

Downes, Nate W. (Junior), Mech. Engr., Bd. of Dirs., Kansas City Sch. District., 517 Finance Bldg.

Fast, Jacob J., Designer of Mch. for Movable Bridges, Waddell & Harrington, 1012 Baltimore Ave.

Harrington, John L., Waddell & Harrington, Orear-Leslie Bldg.

Hatman, Julius G. (Junior), Ch. Engr., Osborne Process Liquid Carbonic Co., 711 Am. Bank Bldg.

Hem, H. O., V. P. and Supt., H. N. Strait Mfg. Co.

Hollenberger, Theodore James (Junior), Engr., E. D. Hornbrook; also, Chicago, Ill.

Howard, Ernest Emmanuel, Assoc. Engr., Waddell & Harrington, 1012 Baltimore Ave.

Hunt, Leigh A., Pres., Hunt Engrg. Co., 1104 Commerce Bldg.; also, Gold Hill, Ore.

Hurlburt, Alfred, Engr., Kansas City Gas Co., 910 Grand Ave.

Kent, James M., Elec. and Mech. Engr., Instr. Applied Steam and Elec., Manual Training H. S.

McCarty, Richard J., V. P., Kansas City So. Ry. Co., Thayer Bldg.

New, William Edward, M. M. and Supt. M. P., Kansas City Terminal Ry. Co.

Rollins, William Benjamin, Cons. Engr., Rollins & Westover, 420 Midland Bldg.

Struckmann, Holger, Ch. Engr. and Genl. Mgr., The Iola Portland Cement Co., 815 Commerce Bldg.

Van Cleve, Horatio Phillips (Junior), Mech. Engr., Waddell & Harrington, 1012 Baltimore Ave.

Overland, St. Louis Co.—Vick, Augustas Theodore, Elec. and Mech. Engr.

St. Joseph.—Billings, Edward J. (Junior), Supt. of Power, St. Joseph Ry., Light, Heat & Power Co.

St. Louis.—Allen, George L., Jr. (Junior), 26 Westmoreland Pl.

Ashton, Walter S., Ch. Engr., St. Louis Brewing Asso.

Ball, Philip De Catesby, Mfr., 3003 N. Broadway.

Bausch, Frederick E., Mgr., The Hooven Owens Rentschler Co., 1216-1217 Chemical Bldg.

Berger, Franz Alfred, Asst. Prof. Mech. Engrg., Washington Univ.

Blackman, G. Horton (Junior), Member of Firm, Bowman-Blackman Mch. Tool Co., 1513 N. Broadway.

Blair, William Richard, Wks. Mgr., Landis Mch. Co.

Boughton, Judson H., Pres., Natl. Light & Power Co., Pierce Bldg.

Brinkerhoff, Albert David (Junior), Secy.-Treas., Natl. Light & Power Co., 1148 Pierce Bldg.

MISSOURI, St. Louis (Continued).

- Busse, F. Ewald, V. P., Barry-Wehmiller Mchy. Co.
 Day, Leonard A., Ch. Mech. Engr., St. Louis Water Dept., 34 E. Grand Ave.
 Dillon, Edward L., Mech. Engr., Fairbanks, Morse & Co.
 Dutcher, Edward H. (Junior), Mgr., E. H. Dutcher & Co., 522 Chemical Bldg.
 Eckert, Arthur C., Counselor at Law, Pat. and Trade Mark Causes, 605-607 Central Natl. Bank Bldg.
 Einstein, Alfred Charles, V. P. and Genl. Mgr., Union Elec. Light & Power Co., 315 N. 12th St.
 Flad, Edward, Cons. Engr., De Menil Bldg.
 Foller, Chas. S., West. Sales Mgr., Union Spring & Mfg. Co., 1322 Central Natl. Bank Bldg.
 Fuchs, Herman, Mgr., Mexican Dept., Fairbanks, Morse & Co., 801 Clark Ave.
 Gazzam, Joseph P., 5027 Westminster Pl.
 Harris, William John, Jr., Engrg. Salesman, Natl. Meter Co.
 Helmreich, L. W., Head Dept. of Elec., Ranken Mech. Sch., 4420 Cook Ave.
 Higdon, John C., Mech. Engr. and Atty.-at-Law, Spec. Pat. and Trade Mark Causes, 605 Central Natl. Bank Bldg.
 Holman, M. L., Cons. Engr., Holman & Laird, 1309 Chemical Bldg.
 Howes, Ray Lawrence (Junior), Salesman, Fairbanks, Morse & Co.
 Hunter, John, Ch. Engr., Union Elec. Light & Power Co., 12th and Locust Sts.
 Jewett, Frank N., Sales Mgr., Wagner Elec. Mfg. Co., 6400 Plymouth Ave.
 Jones, Reid (Junior), 45 Portland Pl.
 Kenyon, Alfred Lewis, 1105 Chemical Bldg.
 Kupferle, Edward, Pres., Kupferle Bros. Mfg. Co., 600 N. 2d St.
 Lowe, Henry Leland (Junior), 1148 Pierce Bldg.
 McCulloch, Richard, V. P. and Asst. Genl. Mgr., United Rys. Co. of St. Louis.
 McDewitt, Frank J. (Junior), Dist Mgr., Elliott Co., and Liberty Mfg. Co. of Pittsburgh, Pa., 1985 Ry. Exch. Bldg.
 MacGill, Charles Frederick, Supt., Busch-Sulzer Bros-Diesel Eng. Co., Second and Utah Sts.
 Meinholtz, Herman Chas., V. P. and Supt., Heine Safety Boiler Co., 2449 E. Marcus Ave.
 Miller, John F. G., Engrg. Salesman and Mgr. St. Louis Office, Am. Blower Co., Title Guaranty Bldg.
 Morehead, William C. (Junior), V. P., Natl. Light & Power Co., Pierce Bldg.
 Morrison, Herbert H., Mech. Engr., Fullerton Bldg.
 Nordmeyer, Louis C., Secy. and Treas., Tait-Nordmeyer Engrg. Co., 1114 Internatl. Life Bldg.
 Ohle, Ernest L., Prof. Mech. Engrg., Washington Univ.
 O'Neil, John Francis, Pres., Fulton Iron Wks., Second and Carr Sts.
 Peek, George Meredith, Mech. Engr. Charge Constr. Dept., St. Louis Water Wks., 34 E. Grand Ave.
 Peterson, Carl H., Southwestern Rep., The Baldwin Loco. Wks. and Stand. Steel Works Co., 1612-1614 Wright Bldg.
 Pfisterer, George Edward (Junior), Dist. Mgr., Green Engrg. Co., 1414 Chemical Bldg.

MISSOURI, St. Louis (Continued).

- Potter, Wm. Bleecker, Mgr. and Ch. Engr., St. Louis Sampling & Testing Wks., 713 Clark Ave.
- Reeves, William Henry, Pres., Reeves & Skinner Mchy. Co.
- Rotter, Max, Ch. Engr., Busch-Sulzer Bros.-Diesel Eng. Co., Second and Utah Sts.
- St. Clair, James Thorpe (Junior), 717 Navarre Bldg.
- Schadek, Edward William, Ch. Engr., The Ruemmell-Dawley Mfg. Co., 3900 Chouteau Ave.
- Schlatter, Rudolf, Engr. Charge of Design, Busch-Sulzer Bros.-Diesel Eng. Co., Second and Utah Sts.
- Setz, Hans Rudolph, Ch. Engr., Fulton Iron Wks.
- Seubert, Arthur (Junior), Instr. Mech. Engrg., Washington Univ.
- Shoebridge, Fred Henry (Junior), Mgr. St. Louis Office, The Alvey-Ferguson Co., 654 Pierce Bldg.
- Skinner, Ramsay, Reeves & Skinner Mchy. Co.
- Tait, Roderick H., Pres., Tait-Nordmeyer Engrg. Co., 1114 Internatl Life Bldg.
- Taylor, John Wallace, Production Engr. and Asst. Supt., Curtis & Co. Mfg. Co.
- Tenney, Edward Henry, Asst. to Ch. Engr. of Power Plants, Union Elec. Light & Power Co., 12th and Locust Sts.
- Terrell, Cary D. (Junior), Sales Agt., Am. Car & Fdy. Co., 915 Olive St.
- Vennum, George Carl, Asst. Ch. Engr. of Power Plants, Union Elec. Light & Power Co., 12th and Locust Sts.
- Wadleigh, George R., Ch. Engr., Bemis Bros. Bag Co., 1601 S. 4th St.
- Wallace, Erwin Van Doren (Junior), Arch. and Engr., 4236 Shaw Ave.
- Westlake, Charles Thomas, Ch. Mech. Engr., Commonwealth Steel Co., 1629 Pierce Bldg.
- Springfield.**—Guckel, Charles Henry (Junior), Genl. Mgr., Springfield Gas & Elec. Co., and Springfield Traction Co., 2 Woodruff Bldg.
- Rosing, William H. V., Spec. Engr., St. L. & S. F. R. R., Frisco Bldg.
- Webster Groves.**—Matlack, Ellwood V., 415 Bompert Rd.
- Moore, Stanley H., Arch. and Engr., Forest and Selma Ave.

MONTANA

- Anaconda.**—Cunningham, George H. (Junior), Designer Engrg. Dept., Anaconda Copper Min. Co.
- Garred, Ulysses A., Ch. Engr., Anaconda Copper Min. Co.
- Butte.**—Charles, Alfred Wm., Ch. Draftsman, Anaconda Copper Min. Co., P. O. Box 1375.
- Nordberg, Carl Victor, Mech. Engr., Rep., Nordberg Mfg. Co., 305-307 Electric Bldg.
- Deer Lodge.**—McKibben, H. B. (Junior), Constr. Engr.
- Great Falls.**—Hull, Monroe Richmond, Mech. and Structural Designer, Anaconda Copper Min. Co.
- Klepinger, John Henry, Asst. Supt. B. and M. Reduction Dept., Anaconda Copper Min. Co.
- Hysham.**—Buckingham, Henry H. (Junior).
- Missoula.**—Richter, Arthur Wm. (Junior), Univ. of Mont.

NEBRASKA

- Lincoln.**—Chase, Leon Wilson, Head Prof. Agri. Engrg., Univ. of Neb., Univ. Farm.
 Chowins, Chas. E., Supt. of Bldgs., Grounds and Constr., Univ. of Neb.
 Hoffman, James David, Prof. Mech. Engrg. and Practical Mechanics, Univ. of Neb., Sta. A.
Omaha.—Harriman, Norman Follett, Chem. and Engr. of Tests, Union Pac. Lab.
 McKeen, Wm. R., Pres. and Genl. Mgr., McKeen Motor Car Co.
 Meyer, C. Louis (Junior), Mgr., Concrete Engrg. Co., Omaha Natl. Bank Bldg.
 Parsons, Harry Noble (Junior), Asst. Mech. Engr. Charge of Purchase Sales, McKeen Motor Car Co.

NEVADA

- Las Vegas.**—Wilcox, Wallace J., Supt. M. P., Las Vegas & Tonapah R. R.; also, Los Angeles, Cal.
McGill.—Duncan, Lindsay, Mech. Engr., Steptoe Valley Smelting & Min. Co.

NEW HAMPSHIRE

- Alton.**—Clough, Wm. R., Prop., Rockwell Clough Co.
Berlin.—Wolf, Robert Bunsen, Mgr. of Mfg., Burgess Sulphite Fibre Co.
Claremont.—Bateman, George Wm. (Junior), Genl. Purchasing Agt., Sullivan Mchy. Co.
 Berliner, Richard W., Genl. Mgr., Claremont Ry. & Ltg. Co.
 Fry, Thomas W., Secy. and Wks. Mgr., Sullivan Mchy. Co.
 Holdsworth, Fred Dean, Mech. Engr., Sullivan Mchy. Co.
Concord.—Lauder, George B. (Junior), Cons. Elec. Engr.
Durham.—Cardullo, Forrest Ellwood, Prof. Mech. Engrg., N. H. College.
 Laton, Thomas J. (Junior), Instr. in Drawing, N. H. College.
Hanover.—Cummings, Wm. Warren, Cons. and Contr. Engr.
Hooksett.—Bourne, Stephen N., Agt., Dundee Mills.
Laconia.—Gerry, Arthur Peterson (Junior), Mech. Engr., Laconia Car Co.
Lisbon.—Hall, Carl Albe (Junior), Mech. Engr., Dir., Parker & Young Co.
Manchester.—Diman, Walter G., Supt. of Power, Amoskeag Mfg. Co.
 Manning, Capt. Charles Henry, Ch. Engr., U. S. N., Ret., Cons. Engr., 885 Elm St.

NEW JERSEY

- Aldene.**—Stillman, Austin Frank, V. P. and Secy., Watson Stillman Co.
Ampere.—Roberts, Thomas Mayo, Elec. Engr., Sales Dept., Crocker-Wheeler Co.
 Warder, Walter J., Jr., Wks. Mgr., Crocker-Wheeler Co.
 Waring, Edward Hileman, Mech. Engr., Crocker-Wheeler Co.
 Wheeler, Schuyler Skaats, Pres., Crocker-Wheeler Co.
 Wiley, James M. (Junior), Box 57.

NEW JERSEY (Continued).

Arlington.—Loomis, Evarts Greene, Mech. Engr., The Arlington Co.

Atlantic City.—Manz, Louis Christian, Asst. Engr. and Supt., Water Dept., City Hall.

Bayonne.—Conrad, Ernest B., Supt., Elec. Launch Co.
Dombrowsky, Walter Ferdinand (Junior), Testing Engr. Proposition Dept., The Babcock & Wilcox Co.

Edwards, Samuel H., Genl. Supt., Tide Water Oil Co.

Gray, John Lathrop, Asst. Genl. Supt., Tide Water Oil Co., E. 22d St.

Gulowsen, G. A., Draftsman, The Babcock & Wilcox Co., 26 E. 3d St.

Harter, Isaac, Jr., Supt., The Babcock & Wilcox Co.

Inslee, Heber Clyde, Engr. on Plant Work, The Babcock & Wilcox Co.

McClintock, Allan P., The Babcock & Wilcox Co.

Prentice, John, Genl. Foreman, Wrought Steel Forge Dept., The Babcock & Wilcox Co.

Sargent, William Durham, Chairman, Bd. of Directors, Reading-Bayonne Steel Casting Co.

Sawyer, Luke Eugene (Junior), Asst. to Foreman Wrought Steel Dept., The Babcock & Wilcox Co.

Smith, Augustus, Pres., Bergen Point Iron Wks., foot of W. 5th St.

Sneddon, James P., The Babcock & Wilcox Co.

Stillman, Thomas Bliss, Jr. (Junior), Apprentice Engr., The Babcock & Wilcox Co.

Zachert, Arthur Robert (Junior), Ch. of Production Dept., The Babcock & Wilcox Co., Bayonne Plant.

Beverly.—Warren, Ambrose Gilmore.

Bloomfield.—Baylis, Robt. Nelson, Pres. and Engr., The Baylis Co.

Henderson, Robert Halsey, Mgr. of Wks., Westinghouse Lamp Co.

Libby, Sam H., Engr. Hoist Dept., Sprague Elec. Wks.

Muller, Paul, Ch. Draftsman, Sprague Elec. Wks. of Genl. Elec. Co.

Weichert, Arnold E., 54 Cleveland Terrace.

Bound Brook.—Ball, Frank H., Cons. Engr., Am. Eng. Co.

Ball, Frederick Ossian, Genl. Mgr., Am. Eng. & Elec. Co.

Bridgeton.—Janvier, Henry Archer, Asst. Mech. Engr., Ferracuta Mch. Co.

Smith, Oberlin, Pres., Ferracuta Mch. Co.

Burlington.—Conard, Wm. R., Inspc. Engr., Savings Institution Bldg.

Camden.—Burton, Isaac Francis, Supt., Victor Talking Mch. Co.
Carpenter, Charles A. (Junior), Genl. Foreman, Camden Iron Wks.

Fitts, James Logan, Factory Mgr., Warren Webster & Co., Point and Pearl Sts.

Harman, William Henry, Mech. Engr., Camden Iron Wks.

Kauffmann, Frederick F., Asst. to Ch. Engr., N. Y. Shipbuilding Co.

Magoun, Henry A., V. P., N. Y. Shipbuilding Co.

Matton, Fred V., Mech. Engr., Camden Iron Wks.

May, De Courcy, Chairman, N. Y. Shipbuilding Co.

Middleton, Albert C., Secy., Victor Talking Mch. Co.

NEW JERSEY, Camden (Continued).

Miller, F. Joseph (Junior), Asst. Engr., Warren Webster & Co.
 Murray, Henry H., Mech. Engr., Victor Talking Mch. Co.
 Webster, Warren, Pres., Warren Webster & Co., Point and Pearl Sts.

Carteret.—Arnold, Anthony Brown, Dist. Engr., The Am. Agri. Chem. Co.

Brown, John J., V. P. and Genl. Mgr., Wheeler Condenser & Engrg. Co.

Christie, E. W., Mech. Engr., Wheeler Condenser & Engrg. Co.

Rossman, James R., Jr. (Junior), Asst. Supt., Am. Agri. Chem. Co.; also, Boston, Mass.

Chrome.—Addicks, Lawrence, Supt., U. S. Metals Refining Co.**East Newark.**—Horstmann, Henry J., Mech. Engr., The F. W. Horstmann Co., 408-410 John St.**East Orange.**—Mueller, Victor H. (Junior), 25 Maple Terrace.

Newton, Lewis W., 18 N. 17th St.

Reimer, Arthur Adams, Engr. Water Dept. City Hall.

Elizabeth.—Barlow, Edwin H. (Junior), Mech. Engr., Stand. Oil Co.

Briggs, William C., Erie Ave. and Springfield Rd.

Holt, Frank Eugene, The Singer Mfg. Co.

Miller, Lebbeus B., 1025 E. Jersey St.

Moore, Samuel L., V. P. and Genl. Mgr., The Moore Bros. Co.

Osterman, Philip Campbell, Asst. Supt., Am. Gas Furnace Co.

Schwab, Gustav (Junior), Engr., Am. Gas Furnace Co.

Elizabethport.—Cowen, Harry (Junior), Genl. Asst. and Designer, Mech. Engrs.' Office, Central R. R. of N. J.**Fort Hancock.**—Birnie, Col. Rogers, Sandy Hook Proving Ground.

Buyers, Archie Stanton (Junior), Second Lieut., Coast Artillery Corps, U. S. A.; also, Sterling, Ill.

Jenks, Glen F. (Junior), Sandy Hook Proving Ground.

Garwood.—Tuttle, Willard S., Pres., Garwood Bronze & Iron Wks.**Glen Rock.**—Montague, Chas. Dwight, 471 S. Maple Ave.**Hackensack.**—Boyd, John T., 231 Polify Rd.**Harrison.**—Allerton, Robert Wade, Supt. Erecting Dept., Henry R. Worthington.

de Laval, Carl Geo., Genl. Mgr., Henry R. Worthington.

Diepenbrock, Joseph F., Ch. Engr., Henry R. Worthington Hyd. Wks.

Dorer, Oscar H. (Junior), Testing Dept., Henry Worthington Hyd. Wks.

Lapat, Leopold (Junior), Erecting Engr., Henry R. Worthington.

Nickel, Frank F., Engr., Henry R. Worthington.

Prince, Walter F., Supt. Fdy. Dept., Henry R. Worthington.

Shriver, Harry T. (Junior), Prop., T. Shriver & Co.

Stewart, Charles Alexander (Junior), Engr. Lamp Wks., Genl. Elec. Co.

High Bridge.—Alexander, Edward E., Ch. Draftsman, The Taylor-Wharton Iron & Steel Co.

Bench, Alfred Rittscher (Junior), The Taylor-Wharton Iron & Steel Co.

Kaley, George B. (Junior), Head Estimator, Taylor-Wharton Iron & Steel Co.

NEW JERSEY (Continued).

- Hoboken.**—Anderson, Robert Marshall, Stevens Inst. of Tech.
 Brownlee, Robert Bruce (Junior), Asst. to Ch. Engr., Cooper
 Hewitt Elec. Co., 730 Grand St.
 Charavay, Marius A. (Junior), Instr. Exper. Engrg., Stevens
 Inst. of Tech.
 Denton, James E., Emeritus Prof. Engrg. Practice, Stevens
 Inst. of Tech.
 Fletcher, Andrew, Pres. and Treas., W. & A. Fletcher Co.
 Fletcher, W. H., V. P., W. & A. Fletcher Co., North River, I.
 W., Hudson St., 12th to 14th Sts.
 Funk, Nelson E., Cons. Engr., Pres. and Mgr., Funk Mch. Co.,
 1401 Clinton St.
 Furman, Franklin De R., Prof. Mechanism and Mch. Design,
 Stevens Inst. of Tech.; also, New York, N. Y.
 Ganz, Albert Frederick, Prof. Elec. Engrg., Stevens Inst. of
 Tech.
 Grupe, William Frederick (Junior), Supt., Funk Mch. Co.,
 1401 Clinton St.
 Gunther, Charles O., Prof. Mathematics, Stevens Inst. of
 Tech., and Cons. Engr., Alphons-Custodis Chimney Constr.
 Co., 95 Nassau St., New York, N. Y.
 Halliday, William Reeder, Asst. Prof. Mechanism and Mch. De-
 sign, Stevens Inst. of Tech.
 Humphreys, Alex. C., Pres., Stevens Inst. of Tech.; also, Pres.,
 Buffalo Gas Co., and Pres., Humphreys & Miller, Inc., 165
 Broadway, New York, N. Y.
 Keuffel, Carl W. (Junior), 610 Hudson St.
 Kinsey, Alfred S., Supvg. Instr. Shop Practice, Stevens Inst.
 of Tech.
 Le Page, Clifford B., Asst. Prof. Physics, Stevens Inst. of
 Tech.
 Martin, Louis Adolph, Jr., Prof. Mechanics and Dean of Jun-
 ior Class, Stevens Inst. of Tech.
 Pryor, Frederick L., Prof. Exper. Engrg., Stevens Inst. of
 Tech.
 Riesenberger, Adam, Registrar and Treas., Stevens Inst. of
 Tech.
 Stevens, E. A., Pres., Hoboken Land & Improvement Co.,
 1 Newark St., and Rd. Comr., State of N. J., State House,
 Trenton.
 Van Patten, William Ensign, Superintending Power and Light
 Plants, M. & E. Div., D. L. & W. R. R.
- Jersey City.**—Akerlund, Gustaf, Ch. Engr., Stand. Gas Power
 Co., 12th and Monmouth Sts.
 Benton, Morris F., Mech. Engr., 300 Communipaw Ave.
 Burghardt, Henry D., Instr. Charge Mch. Shops, Wm. L.
 Dickinson High Sch.
 Chambers, Charles E., Supt. M. P., Central R. R. of N. J.
 Craig, James, Mech. Engr., 807-841 Garfield Ave.
 Davey, Warren (Junior), Ch. Engr., Colgate & Co., 105 Hud-
 son St.
 Ducommun, Edwd., Asst. Ch. Engr., Am. Sugar Refining Co.
 Hagar, Arthur Percy, Engr. Marine Dept., Safety Car Htg. &
 Ltg. Co., 206 Erie St.
 Hendrick, Wallace Mather (Junior), Asst. Engr., The N. Y.
 Continental Jewell Filtration Co., Hudson and Sussex Sts.

NEW JERSEY, Jersey City (Continued).

- Johnson, F. Amos, Cons. Mech. Engr. and Pat. Atty., 22 Morris St.
- Krause, Arthur E., Struc. and Mech. Engrg., 345 Fairmount Ave.
- Lembeck, Otto A., Lembeck & Betz Eagle Brewing Co., 173 Ninth St.
- Lindstrom, Nils Oscar, Supt. A. B. See Elec. Elev. Co., Pacific Ave. and Forest St.
- McIlvrid, James, Genl. Mgr. and Supt., The Cockburn, McIlvrid Corp., 12th and Monmouth Sts.
- Mathewson, Frank E., Dir. Tech. and Industrial Dept., Wm. L. Dickinson High Sch.
- Rink, George William, Mech. Engr. M. P. Dept., Central R. R. of N. J.
- Roberts, Montague H. (Junior), Motor Vehicle Engr., 253 Bergen Ave.
- Sievers, Ernest John Joseph (Junior), Engr. and Draftsman, Pub. Service Elec. Co., Palisade Ave. and Ferry St.
- Snyder, Leo H. (Junior), Joseph Dixon Crucible Co.
- Tompkins, Samuel D., Pres., Smooth-on Mfg. Co., 572 Communipaw Ave.
- Tremaine, E. G., P. Lorillard Co.
- Waldeck, Louis Edwin (Junior), Mfr. of Paper Boxes, 31 Oakland Ave.
- Kearny.**—Chapman, George, Draftsman, Nairn Linoleum Co.
- Leonia.**—Matthews, Fred Elwood, Refrigerating Engr.
- Little Falls.**—Thomson, J. Stewart (Junior), Sales Engr., P. O. Box 292.
- Lodi.**—Boettger, Robert, Secy., United Piece Dye Wks.
- Jurgensen, Jess Christian, United Piece Dye Wks.
- Mahwah.**—Pettis, Clifton D., Wks. Mgr., Am. Brake Shoe & Fdy. Co.
- Sargent, Fitz-William, Ch. Engr., Am. Brake Shoe & Fdy. Co., Box 15.
- Maywood.**—Lydecker, Kenneth (Junior).
- Millville.**—Bigelow, Charles H., Ch. Mech. Engr., Millville Mfg. Co.
- Montclair.**—Pratt, Charles Richardson, Cons. Engr., 39 Gates Ave.
- von Goeben, Carl, 37 Gates Ave.
- New Brunswick.**—Heck, Robert C. H., Prof. Mech. Engrg., Rutgers College.
- New Lisbon.**—White, Joseph J., Pres., Joseph J. White, Inc.
- Newark.**—Baker, Charles H. (Junior), Mech. Engr., Public Service Elec. Co.
- Baquet, Camille, Jr., Mech. Engr., Watts-Campbell Co.
- Baudermann, Joseph A. G. (Junior), Public Service Ry. Co., Broad St.
- Berryman, Wilson G. (Junior), Sales Mgr., Earl E. Litz Co., 207 Market St.
- Betts, Philander, Ch. Engr., Bd. of Public Utility Commrs., State of N. J., 738 Broad St.
- Burleigh, Wm. F., Genl. Supt., Murphy Varnish Co.
- Carle, Nathaniel A., Ch. Engr., Public Service Elec. Co.
- Casler, Frank W., Genl. Supt. Plants, Public Service Elec. Co., 759 Broad St.
- Core, W. Wallace (Junior), 123 N. 4th St.

NEW JERSEY, Newark (Continued).

- Davis, Edwin Halsted (Junior), Engr., Whitehead & Hoag Co.
- Eberhardt, Frank Edward (Junior), V. P. and Treas., Newark Gear Cutting Mch. Co., 69 Prospect St.
- Eberhardt, Frederick L., Pres. and Genl. Mgr., Gould & Eberhardt.
- Eberhardt, H. Ezra (Junior), Gould & Eberhardt.
- Eberhardt, Henry J., Secy. and Designer, Newark Gear Cutting Mch. Co., 69 Prospect St.
- Ellis, Halcolm, Supt., Ellis Adding-Typewriter Co., Elizabeth and Hawthorne Aves.
- Faber du Faur, Adolph, 58 Seymour Ave.
- Farrand, Dudley, Genl. Mgr., Public Service Elec. Co., 759 Broad St.
- Foster, John Melville, Pres. and Genl. Mgr., Foster Engrg. Co., 109 Monroe St.
- Gamon, Ernest E. (Junior), V. P. and Genl Mgr., Gamon Meter Co., 282 South St.
- Harrington, Harry Garfield, 39 Pacific St.
- Jones, Daniel Lanning (Junior), Buyer and Asst. Factory Mgr. Chas. R. De Bevoise Co., Plane and Academy Sts.
- Klockars, Charles Oscar, Supt., Essex Fdy., Murray St. and Ave. D.
- Lister, Alfred, Mech. Supt., Clark Thread Co., and Clark Mile-End Spool Co.
- Loutrel, Cyrus Henry (Junior), Asst. Factory Mgr., Natl. Lock Washer Co.
- Martin, Frank M., Asst. Wks. Supt., The Celluloid Co., 290 Ferry St.
- Mead, Charles Adriance, Ch. Inspr. Div. of Bridges and Grade Crossings, Bd. of Public Utility Commrs., State of N. J.
- Meyer, Edward Barnard, Asst. to Ch. Engr., Public Service Elec. Co.
- Northrup, Francis B. (Junior), Mech. Engr., The Charles Burroughs Co.
- O'Keefe, James G. (Junior), Supt. Wks., Public Service Gas Co., 35 Front St.
- Owen, James, Cons. Engr., 196 Market St.
- Perkins, Nathan Waite, Jr., Engr. and Ch. Draftsman, Ellis Adding-Typewriter Co., 338 Elizabeth Ave.
- Phelps, Frederick Augustus, Mech. Engr. and Mill Arch., Union Bldg., 9-15 Clinton St.
- Phillips, Franklin, Pres., Hewes & Phillips Iron Wks., 8 Orange St.
- Read, George Franklin, Asst. Mech. Supt., Clark Thread Co., Clark and Ogden Sts.
- Richardson, George Partridge (Junior), Mech. Engr., Engr. of Constr., Isbell-Porter Co., 46 Bridge St.
- Roberts, George J., First V. P., Pub. Service Corp. of N. J., Pub. Service Corp. Bldg.
- Runyon, Frederick O., Cons. Engr., 122 Market St.
- Schoenijahn, Robert P. (Junior), M. W. Robinson Co., 31 Ross St.
- Shaw, Louis E., Ch. Engr., Oxweld Acetylene Co.
- String, Joseph Starr (Junior), Supt. Constr., Isbell Porter Co., Bridge and Ogden Sts.
- Taylor, Percy B., Cons. Engr., Essex Bldg.

NEW JERSEY, Newark (Continued).

Weber, Peter, Pres., Sloane & Chace Mfg. Co., 6th Ave. and 13th St.
 Weston, Edward, Pres., Weston Elec. Instrument Co., Waverly Park.
 Wilson, James Edward, Mech. Engr., The Natl. Lock Washer Co., 65 Johnson St.
 Yorzley, William Alfred, Secy. and Engr., Nagle Re-Blade Knife Co.
 Zimmermann, William Frederick (Junior), Ch. Draftsman and Designer, Gould & Eberhardt.

Orange.—Bachman, Robert A., V. P. and Genl. Mgr., Edison Storage Battery Co.

Briggs, Leroy E. (Junior), Staff Engr., Thomas A. Edison Lab.

Durand, Nelson C., Third V. P., Thomas A. Edison, Inc.
 Hutchison, Miller Reese, Personal Rep., Thos. A. Edison, Ch. Engr. Edison Lab., Thos. A. Edison, Inc., Edison Storage Battery Co.

Nicolai, Charles A., Genl. Supt., Thos. A. Edison, Inc., Edison Phonograph Wks.

Passaic.—Appleton, Henry W. (Junior), Mech. Supt. and Asst. Mgr., Passaic Print Wks.

Bryant, F. J., M. M., Andrew McLean Co., 4th and Virginia Sts.

Ernst, Alfred F. (Junior), M. M., Brighton Mills.

Kelly, Timothy Joseph, Supt., Brighton Mills.

Lyall, Wm. L., Treas., Brighton Mills.

Rohlig, George Gustav, Dir. and Genl. Supt., Botany Worsted Mills.

Scheel, Henry Van Riper, Brighton Mills.

Schlachter, Carl H., Supt. Engr., Botany Worsted Mills.

Sedgwick, E. H. (Junior), Pur. Agt., Brighton Mills.

Stephenson, Hermann (Junior), Brighton Mills.

Uehling, Edward A., Pres., Uehling Instrument Co., Delaware Ave.

Paterson.—Ackerman, Wm. S., Cons. Engr., 704 Colt Bldg.

Brock, William M., Supt. Elec. Dept., Pub. Service, Edison Sta.

Christie, Wm. Wallace, Cons. Engr., Citizens' Trust Co. Bldg.; also, New York, N. Y.

Cooke, Fred W., 384 Broadway.

Ferguson, J. W., Engr. and Bldg. Contr., 152 Market St.; also, New York, N. Y.

Hughes, Robert G., Secy. and Mech. Engr., John W. Ferguson Co.

Milson, Thomas H., 528 E. 29th St.

Royle, Vernon, Pres. and Treas., John Royle & Sons.

Royle, Vernon Elmer (Junior), Mech. Engr., John Royle & Sons.

Wilder, Sylvanus Wells (Junior), Supt., Dolphin Jute Mills.

Pequannock.—Benson, Orville.**Perth Amboy.**—Antisell, Frank Linden, Asst. Supt. Raritan Copper Wks.

Balz, George A. (Junior), Mgr., Treas. and Secy., Didier-March Co., P. O. Box 327.

Gill, Author Hendrix, Supt. Mech. Dept., Perth Amboy Plant, Am. Smelting & Refining Co.

NEW JERSEY, Perth Amboy (Continued).

Moore, Levin A., Ch. Engr., Roessler & Hasslacher Chem. Co.
Straub, C. Lee, 106 High St.

Phillipsburg.—Almquist, Karl, Ch. Draftsman, A. S. Cameron Steam Pump Wks.

McIlhenney, William, Ch. Operating Engr., Ingersoll-Rand Co.
Prellwitz, William, Ch. Engr., Ingersoll-Rand Co.

Raymond, Ward, Asst. Engr., Ingersoll-Rand Co.

Redfield, Snowden B., Engr. of Tests, Ingersoll-Rand Co.

Plainfield.—Greenleaf, Geo. Edward, Mech. Engr., Niles-Bement-Pond Co.

Hibbard, Henry D., Cons. Engr., 114 E. 7th St.

Hollingsworth, Samuel, Mech. Engr., 171 E. Front St.

Hurd, Hobert J., 908 W. 3d St.

McIntosh, William, 25 Willow Ave.

MacMurray, James T., Genl. Mgr., Niles-Bement-Pond Co.

Morgan, Lewis Henry, 705 W. Front St.

Ralph, John J. (Junior), Spicer Mfg. Co.

Scribner, Charles W., Mech. Engr., Park Ave.

Spicer, Clarence Winfred, Pres., Spicer Mfg. Co.

Stebbins, Albert C., V. P., Niles-Bement-Pond Co.

Princeton.—Davis, Roswell (Junior), Supt. Grounds and Bldgs., Princeton Univ.

Wilson, Frederick Newton, Prof. Descriptive Geometry and Tech. Drawing, Princeton Univ.

Rahway.—Jackson, Walter W., Ch. Draftsman, The Regina Co.

Koch, Henry, Supt., The Regina Co.

Ridgewood.—Hofmeyer, Geo. A., Inventor and Mfr.

Hüttinger, Wilhelm R. (Junior), 19 W. Ridgewood Ave.

Roselle.—Higgins, Campbell Peck, 127 E. 5th Ave.

Moore, Albert B., Treas. and Genl. Mgr., Shedd Elec. Co., Inc.

Moore, Miller F., 320 Chestnut St.

Rutherford.—Donaldson, Stuart A. (Junior), 106 Donaldson Ave.

Silver Lake.—Baron, Leopold (Junior), Engr. of Constr., New Edison Chem. Wks.

Miller, John Vincent, Mgr., Edison Chem. Wks.

Saltzman, Auguste L., Supt. Primary Battery Plant, Thos. A. Edison, Inc.

Somerville.—Jeffcott, Robert Crawford, V. P. and Genl. Mgr., The Cott-a-lap Co.

Spring Lake.—Hayward, H. S., Cons. Engr. Floating Equip., Pa. R. R.

Stewartsville.—Goldthwaite, Harry W., Ch. Draftsman, Edison Portland Cement Co.

Mason, William H., Supt., Edison Portland Cement Co.

Trenton.—Benson, Stuart Wells., Ch. Draftsman Tramway Dept. Trenton Plant, Am. Steel & Wire Co.

Bunn, Frank Wilson, care of John A. Roebling's Sons Co.

Hanzlik, Henry J., Mech. Engr., De Laval Steam Turbine Co.

Harmar, Josiah, 66 Prospect St.

Hewitt, Wm., Estimating Engr., Am. Steel & Wire Co.

Porter, Finley R., Ch. Engr., Mercer Auto. Co.

Waller, Carl Richard, Ch. Engr., De Laval Steam Turbine Co.

Watson, Herbert L. (Junior), Sales Mgr., De Laval Steam Turbine Co.

Webber, Sam'l S., Ch. Engr., Am. Steel & Wire Co.

Watchung.—Herschmann, Arthur J.

Moldenke, Richard, Secy., Am. Foundrymen's Asso.

NEW JERSEY (Continued).

Weehawken.—Miller, Edwin Ellsworth, Asst. Supt. of Power Plants, Hackensack Water Co.

Sullivan, Howard W. (Junior), Secy. and Treas., Union Drydock & Repair Co.

West Orange.—Edison, Thos. A., Inventor.

Herter, Emil, Ch. Mech. Engr., Edison Storage Battery Co.

NEW MEXICO

Albuquerque.—Huning, Arno E. (Junior), Owner, Huning Elec. Co., 412 W. Central St.

Van Deinse, A. F. (Junior), Mgr., Albuquerque Gas, Elec. Light & Power Co.

Hurley.—Jourdin, Willis Wallace, Ch. Engr. Power Div., Chino Copper Co.

NEW YORK

Albany.—Blake, Francis E. (Junior), Mech. Engr., State Barge Canal Office, New Lyon Blk.

Caracristi, V. Z., Cons. Engr., 100 State St.

Cobb, Stephen Prentiss, Albany So. R. R.

Cook, John P. (Junior), Asst. Engr., N. Y. C. & H. R. R. R. Co., 32 Albany Sta.

Finch, Ellis J. (Junior), Mech. Inspr., N. Y. C. & H. R. R. R. Co., care of Dist. Engr.

Harrington, Wellesley Carl (Junior), Leveler, State Highway Com., 55 Lancaster St.

Kelley, Frederick Williams, V. P., Helderburg Cement Co., 100 State St.

Leonard, Charles F., Gas Engr. Second Dist., Public Service Com.

McElroy, James Finney, Cons. Engr., Consld. Car Htg. Co., 423 N. Pearl St.

Mills, Harold Harlow (Junior), Contr. Engr., Automatic Sprinkler Co. of Am., Rm. 14, 119 State St.

Sague, James Edward, Commissioner, Pub. Service Com., Second Dist.

Wheeler, Seth, Pres., A. P. W. Paper Co.

Amsterdam.—Conlee, George D. (Junior), Supt., The Chuctanunda Gas Light Co., 33 Market St.

Hogg, James, Cons. Engr. and Wool Expt., Stephen Sanford & Sons, Inc.

Smeallie, John Morris, Lieut. U. S. N., Navy Yard, Brooklyn.

Astoria, L. I. (New York City).—Clark, W. Van Alan (Junior), Supt's. Asst., Astoria Light, Heat & Power Co.

Hodgson, Alec Wilberforce, M. M., Astoria Light, Heat & Power Co.

Auburn.—Cooke, Harte, Mech. Engr., McIntosh & Seymour Co. Dyer, Robert A., Jr., Asst. Genl. Mgr., Rochester, Syracuse & East. R. R. Co.

Fowler, Wallace Sherman (Junior), Draftsman, McIntosh & Seymour Co.

McIntosh, John E.

Seymour, James Alward, V. P. and Ch. Engr., McIntosh & Seymour Corp., 91 Orchard St.

Averill Park.—Horton, Charles M. (Junior).

NEW YORK (Continued).

Baldwinsville.—Lager, Carl Axel (Junior), Supt., Morris Mch. Wks.

Ballston Lake.—Nettleton, William Alpheus.

Batavia.—Willson, Frank J. (Junior), Y. M. C. A.

Bellport, Long Island.—Vose, Clarence.

Binghamton.—Cobb, Geo. H., Genl. Mgr., N. Y. Transit Co., 802 Kilmer Bldg.

Gast, George Fred (Junior), Supt. of Constr., Atlantic Gas & Electric Co., care of Binghamton Light, Heat & Power Co.

Harris, Job Frederic Wilson, 21 Goethe St.

Brooklyn, (New York City).—Abbott, Frederick Bancroft, 419 Ninth St.

Adler, Alphonse A., Asst. Prof. Mech. Drawing and Design, Poly. Inst. of Brooklyn, 85 Livingston St.

Aiken, Charles W., Secy. and Treas., Houchin-Aiken Co., 113-123 53d St.

Aldrich, Guy W. (Junior), Asst. Engr., Metropolitan Engrg. Co., 1250 Atlantic Ave.

Binley, William, Jr., Ch. Draftsman Hull Div., Navy Yard.

Boenig, Robert W., Engr. in Charge, Nichols Copper Co., Bor. of Queens.

Booraem, J. Van Voorst, Cons. Engr., 204 Lincoln Pl.

Bruyere, Paul Tulane, Bush Terminal Co., 67 34th St.

Chalmers, John Brown (Junior), Instr., Pratt Inst.

Chute, James Potter, Supt. Floating Equip., Jay Street Terminal.

Cocks, Frank Lawrence, Spec. Designer, Arbuckle Bros., foot of Jay St.

Corbett, Chas. H., V. P., The Continental Iron Wks.

Correa, William Howard (Junior), Asst. Supt., Pratt Wks., Stand. Oil Co.

Cory, George Janeway, Jr. (Junior), Instr. Fdy. Wk., Pratt Inst.

Covell, Harry N., Supt., Lidgerwood Mfg. Co., Dikeman St.

Davidson, Marshall T., Pres., M. T. Davidson Co., 43-53 Keap St.

Deming, Wm. H., Mech. Engr., Continental Iron Wks.

Dobson, W. J. M., Cons. Mech. Engr., 398 Adelphi St.

Doughty, George A., Secy., Logan Iron Wks., 52 Commercial St.

Drewett, William A., 180 Quincy St.

Engel, Godfrey, Constr. Engr., Am. Sugar Refining Co. of N. Y., foot of S. 4th St.

Engel, Louis G., Hotel Bossert, Montague and Hicks St.

Ennis, William Duane, Prof. Mech. Engrg., Poly. Inst. of Brooklyn.

Ferguson, Geo. R., Asst. Engr., Dep't. of Bridges, 179 Washington St.

Fladd, Frederick C., Traveling and Cons. Engr., E. W. Bliss Co., 17 Adams St.; also, New Canaan, Conn.

Flinn, Thomas F., Mech. Engr., 72 Second Pl.

Frommeyer, R. Erich, Pres. and Genl. Mgr., The Schaeffer & Budenberg Mfg. Co.

Gabriel, Charles R., Cons. and Designing Engr., E. W. Bliss Co.

Gates, J. George (Junior), Engrg. Dept., E. W. Bliss Co.

Grimm, Paul H., Ch. Engr., Arbuckle Bros., foot of Jay St.

NEW YORK, Brooklyn (Continued).

- Grossmann, Albert, Cons. Engr., 112 Marlborough Rd.
 Hackstaff, Frederick William (Junior), Adv. Mgr. and Mgr.
 Transmission Rope Dept., Am. Mfg. Co., Noble and West Sts.
 Hamilton, James V., Cons. Engr., 682 E. 5th St.
 Hillmann, Gustav, Naval Arch., 470 Greene Ave.
 Hillyer, Frank H., Head Dept. of Forge and Fdy., Pratt Inst.
 Houchin, Ernest A., Pres., Houchin-Aiken Co., 113-123 53d St.
 Huestis, Bronson Lovett (Junior), Draftsman, Stresau Engrg.
 Co., 31 Washington St.
 Huff, Slaughter W., 259 Franklin Ave.
 Hummel, Charles Frederick, Jr. (Junior), Metallurgical Engr.,
 2410 Putnam Ave., Ridgewood Heights.
 Jewell, Chas. W., Engr., Dept. of Water Supply, Gas and Elec.
 Johnson, John Peter, 15 Kenmore Pl.
 Keller, Joseph F., Mgr., Keller Mech. Engraving Co., Gair
 Bldg., 70 Washington St.
 Kent, Robert Sayre, Designing, Supvg. and Operating Engr.,
 Mechanics Bank Bldg.
 Knight, Geo. Laurence, Designing Engr., Edison Elec. Ill. Co.
 of Brooklyn, 360 Pearl St.
 Kottcamp, John Paul, Instr. in Charge Steam Lab. and Cons.
 Engr., Pratt Inst.
 Krummel, Louis C., 488 Nostrand Ave.
 Langlotz, Charles, Mech. Supt., Brooklyn Cooperage Co., 142
 Kent Ave.
 Langlotz, Robert, 396 Third St.
 Larkin, Fred A., 570 Ocean Ave., Flatbush.
 Leavitt, Frank M., Cons. Engr., 133 Plymouth St.
 Lee, Nixon, Robert Gair Co., foot of Washington St.
 Lenfest, Bertram A., Mech. Engr., 1524 76th St.
 Lockwood, Rutherford T. (Junior), Asst. Supt., Sone & Flem-
 ing Wks., Stand. Oil Co. of N. Y., Kingslands and Meserole
 Aves.
 Logan, Frank J., V. P. and Treas., Logan Iron Wks., Commer-
 cial St.
 Logan, Wm. J., Logan Iron Wks., Commercial and Clay Sts.
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 Maxwell, Maxwell Carson, Head of Dept. Applied Mechanics,
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 Mesick, D. W., Prop. and Mgr., Fulton Fdy. & Mch. Co., 25
 Furman St.
 Milker, Herbert P., Assoc. Mgr. and Publicity Dir., C. J. Tag-
 liabue Mfg. Co., 18-88 33d St.
 Moritz, Albert, Comdr., U. S. Navy, Ret., 723 E. 18th St.
 Moyer, William J., Supt. of Constr., Moyer Engrg. & Constr.
 Co., 375 Fulton St.
 Norris, J. H., Mech. Engr., Natl. Meter Co., 4207 First Ave.
 Obert, Casin W., Pres., Atlantic Mch. Co., 963 Atlantic Ave.
 Ostergren, Oscar P., Mech. and Cons. Engr., 28 Spencer Pl.
 Patton, John H. (Junior), Engr. and M. M., N. Y. Tanning
 Extract Co., West and Green Sts.
 Potts, S. Warren, Mech. Engr., E. W. Bliss Co., Plymouth St.
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 Sabin, Alvah Horton, Cons. Chem., Natl. Lead Co., 129 York St.
 Scott, J. W., Supt., Arbuckle Bros., foot of Jay St.
 Scott, Seaton M., Engr., 55 Hawthorne St.
 Seawell, Bert W., 186 State St.
 Slawson, Harry H. (Junior), 345 Eastern Parkway.
 Spaulding, Hollon C., 15 Clark St.
 Sperry, Elmer Ambrose, Pres. and Engr., The Sperry Gyroscope Co., Nassau and Jay Sts.
 Sprong, Severn D., Elec. Engr., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St.
 Stearns, Albert, Supt., Church & Dwight Co., 36 Ash St.
 Sturken, Carl Albert (Junior), Asst. Engr., Arbuckle Bros. Sugar Refinery.
 Thoma, Charles, Jr. (Junior), Supt. Die Dept., E. W. Bliss Co.
 Thoma, Walter (Junior), Ch. Mech. Inspr., E. W. Bliss Co.
 Tibbals, Geo. A., Secy. and Treas., Continental Iron Wks.
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 Tyler, Hazen Greeley (Junior), Instr. Mech. Engrg., Poly. Inst. of Brooklyn.
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 Wood, Frank J., Ch. Engr., Marx & Rawolle, 9 Van Brunt St.
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 Wyatt, Edgar William, Cons. Engr., Houchin-Aiken Co., 113-123 53d St.

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- Armstrong, Wm. M. (Junior), Corrugated Bar Co., 402 Mutual Life Bldg.
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 Ballin, Alfred E., Mgr. Gas and Oil Eng. Dept., Snow Steam Pump Wks.
 Barr, William Henry, Genl. Mgr., Lumen Bearing Co.
 Bell, David, Engr., Buffalo Fdy. & Mch. Co.
 Bierbaum, Christopher Henry, Bierbaum-Dollar, Inc., Cons. Engrs., V. P., Lumen Bearing Co., Pres., Molyneux Mailing Mchs. Co., 931 Marine Bank Bldg.
 Bigelow, Myron J., Mech. Engr., Molyneux Mailing Mchs. Co., 1021 Main St.
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- Carrier, Willis H., Ch. Engr., Buffalo Forge Co., V. P. and Cons. Engr., Carrier Air Conditioning Co., 490 Broadway.
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- Cloudsley, James B., Ch. Engr. Pumping Sta., Bureau of Water.
- Cooke, George William, Supt., Pierce Arrow Motor Car Co., 1695 Elmwood Ave.
- Cooke, Thomas F. (Junior), Asst. Secy., Charity Organization Soc., 181 Franklin St.
- Danforth, N. Loring (Junior), Pres., John W. Danforth Co., 70-72 Ellicott St.
- Daugherty, Samuel Bovard, Ch. Engr. Gas Eng. Dept., Snow Steam Pump Wks.
- Dollar, William M., Cons. Engr., Bierbaum-Dollar, Inc., 929-935 Marine Bank Bldg.
- Dunlap, George W., Supt. of Equip., Internatl. Ry. Co.
- Elmer, William, Supt. M. P., No. Div., Pa. R. R., 622 Brisbane Bldg.
- Evans, Wellington F., Pres., Stand. Screw Products Co. of Detroit, Mich., Genl. Mgr., Houk Mfg. Co.
- Gamble, William John (Junior), Mech. Engr., Vulcan Steam Forging Co., 247-253 Rano St.
- Gardner, G. Clinton, Jr., Asst. Engr. M. P., The Pa. R. R. Co.
- Gath, Andrew L., Pres. and Treas., Gath Mch. Tool Co., 61 Terrace.
- Gibney, James W., Mgr., Taylor Iron Wks., 575 Howard St.
- Grissinger, Elwood, Cons. Elec. and Mech. Engr., 924 White Bldg.
- Hall, Rodney D., Asst. Ch. Engr., Snow Steam Pump Wks.
- Hammond, Richard, Pres., Lake Erie Engrg. Wks.
- Howell, Frank B., 1807 Elmwood Ave.
- Husted, Clifford Mackay (Junior), Mgr., Husted Milling Co.
- Hyman, D., V. P., Empire Limestone Co., Hudson and 4th Sts.
- Jackson, Lucian C., Cons. Gas Eng. Expt., 905 D. S. Morgan Bldg.
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- Landon, A. A., Genl. Supt. Plants, Am. Radiator Co., 1807 Elmwood Ave.
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- Nesdahl, Ellert, Buffalo Forge Co.
- Nye, Robert Gilson, Asst. Supt., Buffalo Forge Co.
- Osgood, John L., Mfr. and Dealer in Mchy. and Tools, 121 and 138 Erie Co. Bank Bldg.
- Parrock, H. P., Lumen Bearing Co.
- Powel, Samuel W., Mech. Engr., Am. Radiator Co.
- Schakel, J. D., Mech. Engr., Otis Elev. Co., P. O. Box 156.
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- Smith, George Marshall, V. P. and Treas., A. E. Anderson & Co., 642 Prudential Bldg.
- Sornberger, Edwin C., 208 Lancaster Ave.
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- Trefts, John C., Farrar & Trefts, 54-56 Perry St.

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- Canajoharie.**—Crooker, Paul Rhodes (Junior), Asst. Mech. Engr., Beech Nut Packing Co.
- Forté, Harry Phidias (Junior), Mech. Engr., Beech Nut Packing Co.
- Canastota.**—Casler, Herman (Junior), Mfr.
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- Viets, Harry Augustus, Ch. Draftsman, The Autopress Co.
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- Green Island, Albany Co.**—Stix, Lawrence Cullman (Junior), Ch. Engr., Twinvolute Pump Co.
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- Hillsdale.**—Logan, John D., Cons. Engr., P. O. Box 223.
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- Straw, Chas. A., Supt. N. Y. & N. E. Cement & Lime Co.
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- Gerber, Samuel Robert (Junior), Tasksetter, Remington Typewriter Co.
- Haughton, Frank A., Wks. Mgr., Remington Arms & Ammunition Co.

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- Schmidt, Wilhelm Armine, Ch. Tool Designer, Remington Typewriter Wks.
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- Burnett, Earle Smead, Instr. Exper. Engrg., Sibley College, Cornell Univ., Sibley Mech. Lab.
- Carpenter, Rolla C., Cons. Engr., Prof. Exper. Engrg., Sibley College, Cornell Univ.
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- Hess, Howard D., Prof. Mch. Design, Cornell Univ.
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- Morse, Frank Lincoln, Treas. and Mgr., Morse Chain Co.
- Sawdon, Will Miller, Asst. Prof. Exper. Engrg., Cornell Univ.
- Smith, Albert W., Dir., Sibley College, Cornell Univ.
- Wegg, David S., Jr. (Junior), Telluride Asso.; also, Chicago, Ill.
- Wells, Albert Edward, Prof. Mch. Constr. and Supt. of Shops, Sibley College, Cornell Univ.
- Jamaica, L. I. (New York City).**—Haglund, Gustav (Junior), Felton Ave.
- Jamestown.**—Davis, A. C., V. P. and Mgr., Am. Mfg. Concern.
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- Parker, George Alfred, Mech. Asst. to Supt., Draftsman, The Am. Linoleum Mfg. Co.
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- Lockport.**—Mattice, Asa M., R. F. D. 5, Box 4.
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- De Ved, Horace W. (Junior), Engr., N. Y. & Queens Elec. Light & Power Co., 444 Jackson Ave.
- Mt. Vernon.**—Gould, Webster V., N. Y. Rep., Jones & Lamson Mch. Co. of Springfield, Vt., 51 S. 10th Ave.
- Lindsay, W. Edward, Cons. Engr., 15 Tecumseh Ave.
- Nickerson, Charles Willis (Junior), Engr., Westchester Ltg. Co.
- Wilder, Stuart, V. P. and Genl. Mgr., No. Westchester Ltg. Co., and Peekskill Ltg. & R. R. Co., and Engr., Elec. Dept., Westchester Ltg. Co.

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- Matteawan.**—Blackburn, Arthur Henry, Treas. and Genl. Mgr., The Green Fuel Economizer Co.
Challen, Paull Jewill.
Townsend, Albert Cooley (Junior), Ch. Draftsman Fan Dept., The Green Fuel Economizer Co.
- Middletown.**—Flory, Burton P., Supt. M. P., Ont. & West. Ry. Co.
- New Brighton, S. I. (New York City).**—Barnaby, Charles W., Cons. Engr., 257 Hamilton Ave.
- New Rochelle.**—Adams, William Jacques (Junior), G. O. Reynolds, Inc., 316 Main St.
Withington, Sidney (Junior), Asst. Engr., McHenry & Murray, 254 Huguenot St.; also, Boston, Mass.
- New York.**—Abell, Harry Clinton, Mech. Engr., care of Emerson McMillin & Co., 40 Wall St.
Abrams, Herbert T., Mgr., Pump and Calyx Drill Depts., Ingersoll-Rand Co., 11 Broadway.
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Adams, John (Junior), Estimator, Otis Elev. Co.
Aldcorn, Thomas, Genl. East. Sales Mgr., Chicago Pneu. Tool Co., 50 Church St.
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Alexander, Harry, Elec. and Mech. Contr. Engr., Astor Court Bldg., 18-20 W. 34th St.
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Allan, Wm. T., A. Allan & Son, 486 Greenwich St.
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Allyn, Robert S., Counsel and Expt. in Pat. Causes, 16 Exch. Pl.
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Alsberg, Julius (Junior), Cons. Engr., for Frank M. Peters, 11 E. 24th St.
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- Atkins, Harold B., Cons. Engr. and Certified Pub. Acct., 90 West St.
- Atwood, Geo. D. (Junior), Pres., George D. Atwood Co., 149 Broadway, Pres., Uehling Sales Co., 95 Liberty St., and Pres., Decorated Metal Mfg. Co., 196 Degraw St., Brooklyn.
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- Baker, William E., W. E. Baker & Co., 105 W. 40th St.
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- Ball, Herman F., Pres., Economy Devices Corp., 30 Church St.
- Bancel, Paul August (Junior), Mech. Engr., The Geo. H. Gibson Co., 1119 Tribune Bldg.
- Barbour, George Harry, Mech. and Elec. Engr., 74-76 Wall St.
- Barnes, Howel Henry, Jr., Dist. Engr., Genl. Elec. Co., 30 Church St.
- Barr, James Wolff (Junior), Engrg. Salesman, Prentiss Tool & Supply Co., Singer Bldg.; also, Cincinnati, O.
- Barr, John H., Cons. Engr., Remington Typewriter Co., 293 Broadway.
- Barratt, Edgar Grant, Pres., Union Bag & Paper Co., 17 Battery Pl.
- Barron, Claude M. (Junior), Cons. Engr., R. W. Cameron & Co., 23 S. William St.; also, St. Louis Mo.
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- Bayne, George Henry, Mech. Engr., Pa. Coal & Coke Corp., 17 Battery Pl.
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- Beekman, John V., Genl. Supt., Lidgerwood Mfg. Co., 96 Liberty St.
- Behn, Carl, Buffalo Refrig. Mch. Co., 126 Liberty St.
- Behr, Hans C., Cons. Engr., Rm. 1320, 233 Broadway.
- Bell, John Everett, Mech. Engr., Babcock & Wilcox Co., 85 Liberty St.
- Bennet, Orville G. (Junior), V. P., Genl. Motors Export Co., 11 Broadway.
- Bennett, George L., Efficiency Engr., Bd. of Estimate, City of N. Y., 51 Chambers St.
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- Berger, Joseph William, Ch. Engr., Ralph B. Carter Co., 152 Chambers St.
- Bertsch, John Charles, Refrigerating Engr., Providence Engrg. Wks., 50 Church St.
- Best, William Newton, Oil Furnaces and Oil Htg. Engrg., 11 Broadway.
- Bevin, Sydney (Junior), Engr., Fiske Bros. Refining Co., 24 State St.
- Billings, William Richardson, Secy. and Treas., Alberger Pump & Condenser Co., 140 Cedar St.
- Blackall, Frederick S., Chairman Exec. Com., R. Hoe & Co., 504 Grand St., V. P. and Genl. Mgr., The Taft-Peirce Mfg. Co., Woonsocket, R. I.
- Blackwell, Josiah Low, 27 William St.; also, Baltimore, Md.
- Blake, Edwin Mortimer, Rm. 1406, 1 Liberty St.
- Blanchard, Rollo Kimball (Junior), Engr., Neptune Meter Co., 90 West St.
- Bliss, Collins P., Prof Mech. Engrg., N. Y. Univ., Univ. Hgts.
- Block, Louis, Cons. Engr., 45 E. 42d Street.
- Bloemeke, Rudolph B., Ch. Draftsman, N. Y. Edison Co., 55 Duane St.
- Blossom, Francis, Partner, Sanderson & Porter, 52 William St.
- Blum, Arthur N., Mech. Engr., Genl. Delivery.
- Blum, Joseph K. (Junior), Engr., Gardner Crusher Co., 1482 Broadway.
- Blumenfeld, Ralph (Junior), 241 W. 108th St.
- Blumgardt, Isaac E., 57 W. 82d St.
- Boehm, Wm. H., Supt. Depts. Steam Boiler and Fly Wheel Ins., The Fidelity & Casualty Co., 92 Liberty St.
- Boller, Alfred P., Jr., 45 E. 17th St.
- Bolton, Reginald Pelham, Cons. Expt., Pres., The R. P. Bolton Co., 55 Liberty St.

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- Bouton, Geo. Innes, Cons. Mech. Engr., 11 Broadway.
- Bower, J. G., The Buckeye Steel Castings Co., 50 Church St.
- Bowman, Austin Lord, Cons. Engr., 165 Broadway.
- Boyd, James C., Ch. Engr., Westinghouse, Church, Kerr & Co., 37 Wall St.
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- Braine, Bancroft G., Engr., The Rail Joint Co., 185 Madison Ave.
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- Brown, Thomas Owen, Mech. Engr., Westinghouse Church Kerr & Co., 37 Wall St.
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- Bryce, James Wares, Goss & Bryce, 76 William St.
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- Bulkeley, Claude A., Cons. Mech. and Elec. Engr., 511 Terminal Bldg., 41st St. and Park Ave.
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- Burchard, Anson W., 57 E. 64th St.
- Burke, Albert Gallatin, Jr., East. Mgr., Green Engrg Co., Rm. 1269, 50 Church St.
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- Burroughs, Joseph Howell, Jr., Otis Elev. Co., 11th Ave. and 26th St.
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- Bushnell, James Edward (Junior), Engrg. Draftsman, Robins Conveying Belt Co.
- Canady, J. F., Pres. and Genl. Mgr., Blaisdell-Canady Co., 90 West St.
- Carlton, Willard G., Supt. of Power Elec. Div., N. Y. C. & H. R. R. R., Grand Central Sta.
- Carnegie, Andrew, 2 E. 91st St.
- Carpenter, Harold, Res. Engr. Astoria Tunnel, Astoria Light, Heat & Power Co., 132d St. and Locust Ave.
- Carpenter, Raymond, Ch. Engr. with Walter J. Jones, 30 Church St.
- Carroll, Alexander W., Mech. Engr., Barclay, Parsons & Klapp, 60 Wall St.
- Carse, David Bradley, Pres., D. B. Carse & Co., City Investing Bldg.
- Carse, John B., Member Advisory Com., U. S. Steel Corp., 71 Broadway.
- Cary, Albert A., Cons. Mech. Engr., 95 Liberty St.
- Case, Albert H. (Junior), Sante Fe Gold & Copper Min. Co., 11 Broadway.
- Castle, Samuel Northrup, Genl. Elec. Co., 30 Church St.
- Cave, John Richard, Fuel Mech. Engr., Bd. of Education, City of New York, Park Ave. and 59th St.
- Chambers, Norman C. (Junior), Niles-Bement-Pond Co., 111 Broadway.
- Chapman, Cloyd M., Engr. of Tests, Westinghouse Church Kerr & Co., 37 Wall St.
- Chapman, Frank Tomes, East. Mgr., Vento Dept., Am. Radiator Co., Rm. 501, 104 W. 42d St.
- Child, Earnest T., Pres., Child & Scott Co., 112 Wooster St.
- Christen, Armand B. (Junior), Engr., West. Elec. Co., 463 West St.
- Church, Elihu Cunyngham, Secy., Dept. of Water Supply, Gas and Elec., and Ch. of Bureau of Supplies, 13-21 Park Row.
- Clark, Howard B., East. Rept., The McNaull-Boiler Mfg. Co., of Toledo, O., 611 W. 137th St.
- Clark, Walter L., V. P., Niles-Bement-Pond Co. and Pratt & Whitney Co., 111 Broadway.
- Clarke, Samuel J., 51 Wall St.
- Cobb, Willard Halsey (Junior), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St.
- Cobleigh, Henry R. (Junior), Managing Editor, Power, 505 Pearl St.
- Coffin, Frank M., Supt., Wheeler-McDowell Elev. Co., 417-421 Canal St.
- Cole, Edward S., Hyd. Engr., 220 Broadway.

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- Collett, S. D., V. P., Elev. Supply & Repair Co., 105 W. 40th St.
Collins, Francis Winfield, Cons. Engr., 50 Church St.
Colvin, Fred H., Managing Editor, American Machinist, 505 Pearl St.
Colwell, James V. V., Didier-March Co.
Comstock, Louis K., Pres., L. K. Comstock & Co., Inc., 30 Church St.
Cone, Admiral Hutchinson Ingham, Commander U. S. N., U. S. S. Utah, care of Postmaster.
Connett, Lyndon Rutan (Junior), 90 West St.
Cannon, George W., Engr., N. Y. Office, Honolulu Iron Wks. Co., 29 Broadway.
Constantine, Joseph H., Instr. Industrial Arts, Teachers College, Columbia Univ.
Cook, William Henry (Junior), Mgr., Bankers Bldg. Bureau, 106 E. 19th St.
Cook, Wm. Pierson, Jr., Asst. to Ch. Mech. Engr., Thompson-Starrett Co., 51 Wall St.
Cooper, Ellis W., Ch. Engr., Am. Assembling Mch. Co., 140 Nassau St.
Corry, Wm., V. P., Chrome Steel Wks., 11 Pine St.
Coryell, Edwin M., Cons. Engr., 11 Broadway.
Coster, Edwd. Livingston, Broad Exch. Bldg., 25 Broad St.
Cöster, Eric Herbert, Engr., Westinghouse Church Kerr & Co.
Coster, Maurice, Export Mgr., Westinghouse Elec. & Mfg. Co., and Mgr. Export Dept., Westinghouse Mch. Co., 165 Broadway.
Cowperthwait, Allan (Junior), A. B. See Elec. Elev. Co., 220 Broadway.
Coyle, Andrew M., Fortifications, U. S. A., Army Bldg., Whitehall St.
Crane, Arthur Morton, New York Continental Jewell Filtration Co., 15 Broad St.
Crawley, George E. (Junior), Raymond Concrete Pile Co., 140 Cedar St.
Creelman, Frank, 203 W. 117th St.
Crissey, Clarence Philip, Henry R. Worthington, 115 Broadway.
Crowell, Henry Walcott, Supt. Inspc. Dept., Globe Indemnity Co., 45 William St.
Cruikshank, Dr. Barton, Cons. Engr., 30 Church St.
Cullingworth, Geo. R., Mech. Engr., Garvin Mch. Co., Spring and Varick Sts.
Cummings, Byron, Supt. Inspc. Dept., Ocean Accident & Guarantee Corp., 59 John St.
Cummings, Orrie P., Supt. of Constr., A. B. See Elec. Elev. Co., 220 Broadway.
Cumner, Matthew Smith, Mgr., Nestor Mfg. Co., 40 W. 13th St.
Currie, Robert J., 30 E. 42d St.
Dale, Orton G., Mgr., Mead-Morrison Mfg. Co., 149 Broadway.
Dally, John Horton, Ch. Engr., N. Y. Stock Exch., 10 Broad St.
Darbee, William, Elec. Bond & Share Co., 71 Broadway.
Darby, John, Cons. and Designing Engr., 7 E. 42d St.
Darrin, David H., Pres., Automatic Switch Co., 131 Liberty St.
Dashiell, W. W., Pres. and Genl. Mgr., N. Y. Lubricating Oil Co., V. P., Bayway Refining Co., 116 Broad St.

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- Dauchy, Samuel E. (Junior), Industrial Engr. with F. A. Waldron, 37 Wall St.
- Davis, Charles Ethan, Cons. Engr., Box 133, Engineers' Club 32 W. 40th St.
- Davis, Charles Henry, 18 Old Slip; also, South Yarmouth, Mass.
- Davis, Francis Perry (Junior), Am. Tel. & Tel. Co., 15 Dey St.
- Davis, Lewis K., Cons. Engr., 15 E. 40th St.
- Dawley, Clarence A., Cons. Engr., 90 West St.
- Day, Irvin W. (Junior), 100 Broadway.
- Dean, Ambrose Burnside, E. Keeler Co., 50 Church St.
- Deats, William, Factory Supt. and Member of Firm, The Edgar O. Clark Co.
- Devens, Richard, Mgr. East. Office, Brown Hoisting Mchy. Co., 50 Church St.
- Dewson, Edward Henry, Res. Engr., Westinghouse Brake Cos., 165 Broadway.
- Dickerman, Wm. Carter, V. P., Am. Car & Fdy Co., 165 Broadway.
- Dickinson, William Noble, Mgr. Foreign Dept., Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St.
- Dinkel, Geo., Cons. Engr., Am. Sugar Refining Co., 117 Wall St.
- Dixon, Robert M., Pres., Safety Car Htg. & Ltg. Co., 2 Rector St.
- Dobson, Frank, 319-321 E. 53d St.
- Doelling, Louis Karl, Pres. and Genl. Mgr., De La Vergne Mch. Co., foot of E. 138th St.
- Doherty, Henry L., Pres., Denver Gas & Elec. Co., 60 Wall St.
- Donnelly, James A., Cons. Htg. and Vent. Engr., Pres., Positive Differential System Co., 132 Nassau St.
- Donnelly, William T., Cons. Engr., 17 Battery Pl.
- Donovan, William J., Supt. and Ch. Engr., Hotel Manhattan, 17 E. 42d St.
- Douglas, Walter Cooley (Junior), Secy., Topping Bros., Inc., 122 Chambers St.; also, Greenwich, Conn.
- Dowd, Wylls E., Jr., 111 Broadway.
- Du Bosque, F. L., Pa. R. R., Pa. Sta.
- Ducas, Charles (Junior), Cons. Engr., Jacobs-Shupert U. S. Firebox Co., Rm. 321, 30 Church St.
- Duncan, Harry Lee, Pat. Lawyer and Expt., Member of Firm, Duncan & Duncan, 73 Nassau St.
- Duncombe, Frederic H. (Junior), Sales Engr., Power & Min. Mchy. Co., 115 Broadway.
- Dunn, Gano, Pres., J. G. White Engrg. Corp., 43 Exch. Pl.
- Dyer, Frank L., Pres., Genl. Film Co., 200 Fifth Ave.
- Earl, Chas. Isaac, 11 Broadway.
- Eastment, Wm. H. (Junior), Engr., B. Altman & Co., Fifth Ave. and 34th St.
- Eddison, W. Barton (Junior), Asst. Instr. Mech. Engrg. Dept., Columbia Univ.
- Eden, Louis E., Mech. and Advisory Engr. with Cass Gilbert, 11 E. 24th St.
- Ehrmann, Carl, Sales Engr., 2 Rector St.
- Ellers, Karl, Am. Smelting & Refining Co., 165 Broadway.
- Ekstrand, Charles, Mech. Engr., Warner Quinlan Asphalt Co., 79 Wall St.
- Eldred, Byron E., Pres., Commer. Research Co., 50 E. 41st St.

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Bldg., Pittsburgh, Pa.

Emery, James Inman, 73 W. 95th St.

Ennis, Herbert V. (Junior), Engrg. Dept., Am. Car & Fdy. Co.

Ennis, J. B., Ch. Mech. Engr., Am. Loco. Co., 30 Church St.

Epple, Edward C. (Junior), Ch. Draftsman, Turner Constr. Co.,
11 Broadway.

Erlenkotter, Walter (Junior), Fuel Engrg. Chem., Stand. Test-
ing Lab. of City of N. Y., 127 Worth St.

Errington, Franklin A., Cons. Mech. Engr. and Mfr. Mch.
Tools, 39 Cortlandt St., and Lab., Stapleton, S. I.

Erwin, William W., N. Y. Edison Co., 55 Duane St.

Estabrook, Mansfield (Junior), Niles-Bement-Pond Co., 111
Broadway.

Euston, Edward R., Second V. P., Treadwell Engrg. Co., 140
Cedar St.

Evans, Quimby N., Member of Firm, Evans, Almirall & Co.,
Clark and Dominick Sts.

Evans, William A., The Griscom-Russell Co., 90 West St.

Faber, John Pelham (Junior), Westinghouse Church Kerr &
Co., 37 Wall St.

Faille, E. H. (Junior), Supvg. Engr., Adams Express Bldg Co.,
61 Broadway.

Falkenau, Arthur, Industrial and Cons. Engr., 165 Broadway.

Farley, Ernst Watson, Genl. Maintenance Engr., Am. Loco.
Co., 30 Church St.; also, Richmond, Va.

Farr, Arthur V. (Junior), Mech. Engr., Engrg. Supv. Co., 366
Fifth Ave.

Farrell, Frederick L. (Junior), Economizer Engrg., B. F.
Sturtevant Co., Rm. 1667, 50 Church St.

Farrell, Morgan G., Supvg. Engr., Suffern & Son, 149 Broad-
way.

Feldman, Abram Meyer, Cons. Engr., 120 Liberty St.

Felker, George F. (Junior), N. Y. Rep., Pittsburgh Valve,
Fdy. & Constr. Co., Inc., 30 Church St.

Fenner, David C., 1764 Broadway.

Ferguson, Hardy Smith, Cons. Engr., 200 Fifth Ave.

Fleux, Ernest D. (Junior), Pres. and Treas., L. J. Wing Mfg.
Co., 352-362 W. 13th St.

Fillingham, Myles Percy, Cons. and Contr. Engr., Hudson Ter-
minal Bldg.

Fink, Emil Charles, V. P., Internatl. Motor Co., 1770 Broadway.

Finlayson, Edward H., Jr. (Junior), Asst. Engr., The Am.
Stoker Co., 11 Broadway.

Fisher, Elbert Clement, Engr., Westinghouse Church Kerr &
Co., 37 Wall St.

Fisher, William Wallace (Junior), Engr., Peirce Patents
Co., 220 Fifth Ave.

Fitzgerald, Edward Thomas, Ry. Engr., Public Service Com.,
First Dist.

Fleming, Henry Stuart, Cons. Engr., 1 Broadway.

Flint, Bertram Pierpont, McIntosh, Seymour & Co., 50 Church
St.

Fogg, Oscar H., Engr. of Utilization, Consld. Gas Co. of N. Y.,
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- Foran, George Jesse, Mgr. Condenser Dept., Internatl. Steam Pump Co.
- Forbes, Harry Rogers, East. Rep., Lumen Bearing Co., Rm. 573, 50 Church St.
- Forrest, George Munro, Remington Typewriter Co., 293 Broadway.
- Forstall, Alfred E., Cons. Engr., 84 William St.
- Foster, Ernest Howard, V. P. Power Spec. Co., 111 Broadway.
- Foster, Jed S., Engr., Lidgerwood Mfg. Co., 96 Liberty St.
- Fowler, Geo. L., Cons. Mech. Engr., 83 Fulton St.
- Fox, Royal E., Jr., V. P., The Engr. Co., Rm. 1852, 50 Church St.
- Fox, William, Assoc. Prof. Physics, College of the City of N. Y., 139th St. and Convent Ave.
- Francisco, Ferris L. R., Cons. Engr., Rm. 1252, 200 Fifth Ave.
- French, Lester Gray, Editor, Am.Soc.M.E., 29 W. 39th St.
- Frevert, H. F., Pres. and Treas., Frevert Mchy. Co., 38 Vesey St.
- Frohwein, Richard W. (Junior), Pur. Agt., M. H. Treadwell Co., 140 Cedar St.
- Fry, Alfred Brooks, Ch. Engr., U. S. Treas. Service, and Cons. Engr., Asso. for Protection of the Adirondacks, U. S. Custom House Bldg.
- Fuller, George W., Cons. Engr., 170 Broadway.
- Fuller, Henry Jones, V. P., Fairbanks-Morse & Co., Rm. 615, 30 Church St., and Pres., Canadian Fairbanks-Morse Co., Ltd., 444 St. James St., Montreal, Que., Canada.
- Gaebelein, Arno Wesley (Junior), Ch. Engr., Clarence N. Peacock & Co., 1790 Broadway.
- Gannon, Thomas Joseph, Mech. Engr., Dept. of Water Supply, Gas and Elec.
- Gantt, Henry L., Cons. Engr., 2915 Singer Bldg.
- Gardner, Henry, Supvr. Apprentices, N. Y. C. & H. R. R. Co., 2850 Grand Central Terminal.
- Garrahan, F. B. (Junior), Engr. Accounting Dept., Internatl. Nickel Co.; also, Wilkes-Barre, Pa.
- Garvin, George K., Pres., Garvin Mch. Co., Spring and Varick Sts.
- Gately, Philip J., Ch. Engr., R. Webber's Packing House & Cold Storage Plant, 2191 Third Ave.
- Gately, William Aloysius (Junior), Eng. Dept., De La Vergne Mch. Co.
- Gause, Fred Taylor, Lubricating Oil, Foreign Dept., Stand. Oil Co. of N. Y., 26 Broadway.
- Genung, Nelson H., V. P. and N. Y. Mgr., Coatesville Boiler Wks., 30 Church St.
- Gerhard, Dr. William Paul, Cons. Sanitary Expt. and Hyd. Engr., Rm. 1213, 42d St. Bldg., 42d St. and Madison Ave.
- Gersoni, Louis Jacob, Mech. Engr., Dept. of Water Supply, Gas and Elec., 13 Park Row.
- Gibbs, Geo., Cons. Engr., Gibbs & Hill, Cons. Engrs., Pennsylvania Sta.
- Gibson, George Herbert, Cons. Engr., Tribune Bldg.
- Gilbreth, Frank B., Cons. Engr., Frank B. Gilbreth, Inc., 30 Church St. and 77 Brown St., Providence, R. I.
- Gillan, Howard A. (Junior), Union Pacific System, Rm. 2408, 165 Broadway.

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- Gillett, Lowry (Junior), Steam Engr., Genl. Chem. Co., 25 Broad St.
- Gillies, Wm. F., N. Y. Branch Mgr., A. S. Cameron Steam Pump Wks., 11 Broadway.
- Gilson, Harry W. (Junior), Engr., Blaisdell Canady Co., 90 West St.
- Gladden, Charles S. (Junior), Asst. Engr., Chas. O. Lenz, Rm. 617, 71 Broadway.
- Glasgow, Carr L., Fairbanks, Morse & Co., 30 Church St.
- Goentner, William B. (Junior), Asst. Engr., Dept. of Water Supply, Gas and Elec., 2020 Park Row Bldg., 13-21 Park Row.
- Goetze, Frederick A., Dean Sch. of Mines, Engrg. and Chem., Columbia Univ.
- Going, Charles Buxton, Editor, The Engineering Magazine, 140 Nassau St.
- Goldberg, Monroe S. (Junior), Pres., No. Waterproofing Co., 1123 Broadway.
- Goldingham, Arthur Hugh, De La Vergne Mch. Co., foot of E. 138th St.
- Goldschmidt, Otto E., Cons. Engr., 30 W. 38th St.
- Goodrich, Robert R., Columbia Univ.
- Gordon, Henry Decatur, 80 White St.
- Gordon, William, Mgr., Thompson-Starrett Co., 660 First Ave.
- Goss, Harry Terboss, Cons. Mech. Engr., Goss & Bryce, 76 William St.
- Goubert, Auguste A., 90 West St.
- Greene, Ernest Woodruff (Junior), Sales Engr., Alberger Pump & Condenser Co., 140 Cedar St.
- Greene, Harris Ray, N. Y. Sales Mgr., Merritt & Co., 50 Church St.; also, New Haven, Conn.
- Greenidge, Charles Austin, Elec. Ltg. Mgr., J. G. White & Co., Inc., 43 Exchange Pl.
- Gremple, Chas. W., 125 Fifth Ave.
- Greul, W. Herman, In Charge of Price Bureau, Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St.
- Griepe, A. W. H., V. P. and Genl. Mgr., Turbo Co., Suite 401, 1465 Broadway.
- Gubelman, Frederick J., Pres., Regina Co., and East. Constr. Co., 47 W. 34th St.
- Gunagan, Richard Henry, Asst. Supt. Inspec. Dept., The Fidelity & Casualty Co. of N. Y., 92 Liberty St.
- Gwilliam, George T., Pres., The Gwilliam Co., Broadway and 58th St.; also, Philadelphia, Pa.
- Haar, Selby, Private Student, 206 W. 128th St.
- Haden, Harry Y., Pres., Turbine Equip. Co., 30 Church St.
- Hagstrom, Harry O. (Junior), Engr., Elev. Supply & Repair Co., 105 W. 40th St.
- Hall, Frederick Arthur, Mfrs.' Agt., 5 Beekman St.
- Hall, Morris A., Managing Editor, Motor Life, 337 W. 38th St.
- Hall, Willis E., Cons. Engr., 44 Cedar St.
- Haller, Winfield A., Genl. Supt. and Ch. Engr., Federal Light & Traction Co., 60 Broadway.
- Halsey, Frederick A., Editor Emeritus, American Machinist, 505 Pearl St.
- Halsey, Ralph Wetmore (Junior), N. W. Halsey & Co., 49 Wall St.
- Hamilton, James, Pat. Lawyer, 31 Nassau St.

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- Hammer, Edwin Wesley, Cons. Elec. and Mech. Engr., Pat. Expt. and Solicitor of Patents, 55 John St.
- Hammond, John Hays, Cons. Engr., 71 Broadway.
- Hamner, Chas. Sutherland, Cons. Engr., 212 Fifth Ave.
- Hankin, John, Pres., John Hankin & Bro., 550 W. 25th St.
- Hanmer, Laurence Gardner (Junior), Secy., George D. Atwood Co., Inc., Singer Bldg., 149 Broadway.
- Hannah, Frederick Augustus, Efficiency Engr., Aeolian Hall, 33 W. 42d St.
- Harding, Adalbert (Junior), 50 Church St.
- Hardy, George F., Cons. Engr., Langdon Bldg., 309 Broadway.
- Harlan, O. K., care of Am.Soc.M.E., 29 W. 39th St.; also, Union City, Ind.
- Harris, Grenville A., Ch. Engr., Takata & Co., 50 Church St.
- Harrison, Harry (Junior), N. Y. Sales Mgr., Brunswick Refrigerating Co., Rm. 418, 30 Church St.
- Hartford, Claude (Junior), Engr., N. Y. Steam Co., 140 Cedar St.
- Hartmann, Francis M., Prof. Elec. and Mech. Engrg., Cooper Union.
- Hartwell, Harry, Asst. to V. P., Pearson Engrg. Corp., 115 Broadway.
- Harvey, Daniel Carroll, Supt. of Inspec., The Fidelity & Casualty Co., 92 Liberty St.
- Hatch, Edwin Glentworth, Mgr., Clark Elec. & Mfg. Co., and Associated with Walter G. Clark, Cons. Work, 149 Broadway.
- Hatheway, Philip M. (Junior), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St.; also, Brookline, Mass.
- Hawkins, Ernest Hubbard (Junior), Power Plant Engr., Allis-Chalmers Mfg. Co., 30 Church St.
- Hawthorne, Hayden Thwing (Junior), Export Sales Dept., Stand. Oil Co. of N. Y., 26 Broadway.
- Hayes, William Parsons, Supvr. of Bldgs., Consld. Gas Co. of N. Y., 124 E. 15th St.
- Hayward, Henry S., Jr., Mech. Engr., 30 Church St.
- Hayward, Sterling F., Treas., Connelly Iron Sponge & Governor Co., 127 Duane St.; also, Cambridge, Mass.
- Hearne, Robert J., Secy. and Treas., Durbrow & Hearne Mfg. Co., 12 Wooster St.
- Heller, H. Howard, Rm. 2070, 50 Church St.
- Henney, David, Twombly & Henney, 55 Liberty St.
- Henshaw, Frederick V., Cons. Engr., William P. Bonbright & Co., Inc., 14 Wall St.
- Hepke, George A. (Junior), Sales Engr., Erie City Iron Wks., 1360-1362 Woolworth Bldg.; also, Hamilton, O.
- Herbert, Frederick Davis, Genl. Sales Mgr., Terry Steam Turbine Co., 90 West St.
- Hering, Rudolph, Cons. Engr., Hering & Gregory, 170 Broadway.
- Herreshoff, J. B. Francis, V. P., Nichols Copper Co., Cons. Engr., Genl. Chemical Co., 25 Broad St.
- Herrick, James A., Metallurgical Engr., Suite 70-72, 271 Broadway.
- Herriman, Victor D. (Junior), Engr., Internatl. Steam Pump Co., 115 Broadway.

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Hey, Harry A. (Junior), Assistant to Secretary, Am.Soc.M.E.,
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Hibbard, Leonard J., Genl. Mgr., L. J. Hibbard Co., World
Bldg.

Hill, E. Rowland, Cons. Engr., Gibbs & Hill, Pennsylvania Sta.

Hill, Geo., Builder, 31 E. 27th St.

Hill, John A., Publisher, 505 Pearl St.

Hill, Nicholas Snowden, Jr., Cons. Engr., 100 William St.

Hinckley, Charles Wright, Otis Elev. Co., 11th Ave. and 26th
St.

Hintze, Thomas F. (Junior), Engr's. Asst. Constr. Dept.,
Consld. Gas Co., 124 E. 15th St.

Hirschland, Dr. Franz Herbert (Junior), Genl. Mgr., Gold-
schmidt Detinning Co., 60 Wall St.

Hirt, Louis Joseph, V. P., Pearson Engrg. Corp., 115 Broad-
way.

Hoe, Robert, Pres., R. Hoe & Co., 504 Grand St.

Hoffmann, Simon, First V. P., Loco. Superheater Co., 30
Church St.; also, Cassel-Wilhelmshöhe, Germany.

Holbrook, Dio Lewis, Engr., Otis Elev. Co., Otis Elev. Bldg.,
11th Ave. and 26th St.

Holbrook, Percy, V. P., Rail Joint Co., 185 Madison Ave.

Hollander, Emanuel, Ch. of Estimating Staff, Engrg. Dept.,
Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St.

Holloway, H. F., 165 Broadway.

Holme, Raymond Arthur (Junior), Salesman, De La Vergne
Mch. Co.

Holmes, Frederick S., Bank Vault Engr., 2 Rector St.

Horton, Elias Quereau (Junior), Engr. Sales Dept., Otis Elev.
Co., 11th Ave and 26th St.

Horton, John T., Specialist in Hoisting Equip., 90 West St.

Hough, David Leavitt, Pres., United Engrg. & Contr. Co.,
Pres., Cuban Engrg. & Contr. Co.

Houghton, Charles E., Assoc. Prof. Mech. Engrg., N. Y. Univ.

Houskeeper, William G., 215 W. 23d St.

Hovey, Otis Ellis, Asst. Ch. Engr., Am. Bridge Co. of N. Y.,
30 Church St.

Howard, Charles Alton (Junior), Mech. Engr., Gunn Richards
& Co., 43 Wall St.

Howard, O. Zell, Cons. Engr., 90 West St.

Howe, Albert W., Rep. and Engr., Robert Wetherill & Co., 17
Battery Pl.

Howell, Frank Scott, Mech. Engr., Howell & Howell, 1182
Broadway.

Hoxie, George L., Hoxie & Goodloe, 50 E. 41st St.; also, Los
Angeles, Cal.

Hoxie, Wm. D., V. P., The Babcock & Wilcox Co., 85 Liberty
St.

Hubbard, Carleton Waterbury (Junior), Mech. Engr., Fuel
Engrg. Co. of N. Y., 59 Pearl St.

Hudson, Wilbur Gregory, V. P., Guarantee Constr. Co., 90
West St.

Hulbert, William Rowsell, Sales Mgr., Goldschmidt Thermit
Co., 90 West St.

Hummel, Frank Louis, Sales Engr., The Hooven, Owens,
Rentschler Co., 39 Cortlandt St.

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- Humphrey, George S., Secy. and Pur. Agt., C. W. Hunt Co., Inc., 45 Broadway.
- Hunt, Wm. Floyd, Cons. Engr., 115 Broadway.
- Hunter, James Francis, Asst. Engr. of Constr., Consltd. Gas Co., 4 Irving Pl.
- Huntington, Chapin (Junior), care of C. W. Huntington, 143 Liberty St.; also, Aachen, Germany.
- Huntington, Clarence William, Genl. Supt., Central R. R. Co. of N. J., 143 Liberty St.
- Hussey, Charles Ward (Junior), Westinghouse Church Kerr & Co., 37 Wall St.
- Hussey, Wm. Edgerly, Mgr. N. Y. Office, Providence Engrg. Wks., 50 Church St.
- Hutchinson, Cary T., Cons. Engr., 60 Wall St.
- Hutton, Frederick R., 257 W. 86th St., Honorary Secretary, Am.Soc.M.E., 29 W. 39th St., Emeritus Prof. Mech. Engrg., Columbia Univ., Cons. Engr.
- Hutton, Mancius S. (Junior), 257 W. 86th St.
- Hyatt, Herbert Richardson, Mech. Engr. Sales Dept., Custodis Chimney Constr. Co., 95 Nassau St.
- Hyde, Charles E., Marine Engr. and Naval Arch., 424 W. 20th St.
- Hymans, Frederick, Engr., Otis Elev. Co.
- Idell, Frank E., Mech. Engr., 50 Church St.
- Idell, Percy C., Mech. Engr. Sales Dept., The Babcock & Wilcox Co., 85 Liberty St.
- Ilsley, John Parker, Niles-Bement-Pond Co., 111 Broadway.
- Imbrie, William Morris, Jr., Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St.
- Ingham, Howard M., Efficiency Engr., Mohawk Bldg., 160 Fifth Ave.
- Isham, Henry S., Mech. Draftsman, Interborough Rapid Transit Co., 165 Broadway.
- Isherwood, Benjamin Franklin, Ret. Ch. Engr., Rank of Rear Admiral, U. S. N., 111 E. 36th St.
- Israel, Albert Herman (Junior), Mech. Engr., Engrg. Supervision Co., 336 Fifth Ave.
- Jackson, Charles Arthur, Mech. and Hyd. Engr., The Pelton Water Wheel Co., 90 West St.
- Jacobus, D. S., Advisory Engr., The Babcock & Wilcox Co., 85 Liberty St.; also, Spec. Lecturer in Exper. Engrg., Stevens Inst. of Tech., Hoboken, N. J.
- Jacobus, Robert F., Francisco & Jacobus, 200 Fifth Ave.
- Janney, Reynold, Mech. Engr., 21 Claremont Ave.
- Jenks, Llywellyn Howard, Mgr., N. Y. Office, The Frick Co., 39 Cortlandt St.
- Johann, Chas. Sheppard, Mgr. of Operation and Constr., Atlantic Gas & Elec. Co., 25 Broad St.; also, Easton, Pa.
- John, Griffith, Cons. Engr., Otis Elev. Co., Otis Elev. Bldg., 11th Ave. and 26th St.
- Johnson, David Clayton (Junior), Asst. Engr., H. deB. Parsons, 22 William St.
- Johnson, J. E., Jr., Cons. Engr. and Metallurgist, 52 William St.
- Johnson, Nathan C., Raymond Concrete Pile Co., 140 Cedar St.; also, Pittston, Pa.

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- Johnson, Robert, Engr. in Charge, Hecker-Jones-Jewell Milling Co., Corlears and Water Sts.
- Johnston, John Parry, 32 W. 40th St.; also, Philadelphia, Pa.
- Jones, Benjamin N., Mgr. of Mfg., Otis Elev. Co.
- Jones, Frank Cazenove, Pres., W. A. Underhill Brick Co., 51 E. 42d St.
- Jones, John Emlyn, Engineers' Club, 32 W. 40th St.
- Jones, Russell Compton (Junior), Engrg. Dept., Griscom-Russell Co., 90 West St.
- Jones, Walter J., Cons. Engr., 30 Church St.
- Jones, W. Brayton, Ch. Draftsman, Robins Conveying Belt Co., 13-21 Park Row Bldg.
- Jordan, Edward V., Supt. of Constr., The M. W. Kellogg Co., 50 Church St.
- Jordan, William Allen, Efficiency Engr., 50 Church St.; also, Wilmington, Del.
- Jowett, J. H., Genl. Sales Mgr., Ingersoll-Rand Co., 11 Broadway.
- Just, Geo. A., Cons. Engr., and Pres., George A. Just Co., 239 Vernon Ave., Long Island City.
- Katte, Edwin Britton, Ch. Engr., Elec. Traction, N. Y. C. & H. R. R. R., 5048 Grand Central Terminal.
- Katzenstein, Martin L. (Junior), Mgr. Marine Dept., Internatl. Steam Pump Co., 115 Broadway.
- Keenan, Walter Francis, Jr. (Junior), Asst. Engr., Power Spec. Co., 111 Broadway.
- Keith, Thomas M., Engr., Robins Conveying Belt Co., 21 Park Row.
- Kellogg, Morris W., Pres., The M. W. Kellogg Co., 50 Church St.
- Kendig, Roscoe B., Ch. Mech. Engr., N. Y. C. & H. R. R. R., Grand Central Terminal.
- Kendrick, J. W., Outing Publishing Co., 141 W. 36th St.; also, Chicago, Ill.
- Kennedy, Harold J. (Junior), V. P., The Comerma Co., 14 E. 42d St.
- Kennedy, J. J., Cons. Engr., 52 Broadway.
- Kennedy, William Percival, Cons. Engr., 1790 Broadway.
- Kent, Henry R., Rm. 609, 141 Broadway.
- Kent, Robert Thurston (Junior), Editor, Industrial Engineering, 120 W. 32d St.
- Kent, William, Cons. Engr., 120 W. 32d St.
- Kenyon, Wm. Houston, Member of Firm, Kenyon & Kenyon, 49 Wall St.
- Kerins, John Stewart (Junior), Draftsman, N. Y. Edison Co.
- Kerr, C. V., Sales Engr., A. S. Cameron Steam Pump Wks., 11 Broadway.
- Ketchum, Samuel, Ch. Draftsman, M. H. Treadwell Co., 140 Cedar St.
- Kidd, Andrew, Jr., Cons. Engr., 95 Liberty St.
- Kilpatrick, John Douglas, Cons. Hyd. Engr., 30 Church St.
- Kind, Morris, Delmonico's, 44th St. and Fifth Ave.
- Kinder, J. J. de, care of Am.Soc.M.E., 29 W. 39th St.
- King, Charles Arthur (Junior), Asst. Cons. Engr. to Henry C. Meyer, Jr., 101 Park Ave.
- King, Fred S., Mgr. Gas Eng. Dept., Natl. Meter Co., 84-86 Chambers St.

NEW YORK, New York City (Continued).

- Kingsley, Frank, Assoc. Editor, Electric Railway Journal, 239 W. 39th St.
- Kinkead, James A., Res. Sales Mgr., Parkesburg Iron Co., 30 Church St.
- Kirchhoff, Charles, 587 Riverside Drive.
- Kirk, Robert H., Howland-Kirk Co.
- Kirkup, Joseph P., Engr., Ice Mfg. Co., 1170 Broadway.
- Kissick, Joseph, Jr. (Junior), Merchant Engr., 403 Singer Bldg.
- Klein, Otto H., Dir., Stand. Testing Lab. of City of N. Y., Bd. of Estimate and Apportionment, 125-127 Worth St.
- Kliesrath, Victor William, Ch. Engr., Bosch Magneto Co., 223 W. 46th St.
- Kneeland, Frank H. (Junior), Assoc. Editor, Coal Age, 505 Pearl St.
- Koenig, Adolph G., Member of Firm, Mortensen & Co., 114-116 E. 28th St.
- Kornfeld, Alfred Ephraim, 114 E. 71st St.
- Kugel, H. K. (Junior), Sales Engr., Sullivan Mchy. Co., 30 Church St.
- Laidlaw, Walter, Secy., Internatl. Steam Pump Co., 11 Broadway; also, Cincinnati, O.
- Laird, Wilbur G., with Henry L. Doherty, 60 Wall St.
- Lane, J. S., Mech. Engr., The Engr. Co., 50 Church St.
- Lang, Charles (Junior), N. Y. Mgr., C. H. Wheeler Mfg. Co., 114 Liberty St.
- Lange, Heinrich Bartels (Junior), Mem. of Staff, Suffern & Son, 149 Broadway.
- Lask, Frederick, Catalogue Editor, Am.Soc.M.E., 29 W. 39th St.
- Law, Frank E., V. P., The Fidelity & Casualty Co.
- Lawrence, John Henry (Junior), Asst. to Mech. Engr., N. Y. Edison Co., 55 Duane St.
- Lee, Ralph A. (Junior), Engr. Mfg. Dept., Barrett Mfg. Co., 17 Battery Pl.
- Leigh, Robert E. (Junior), Plant Engr., Charles F. Noyes Co., 92 William St.
- Lent, Leon B., Pres., Lent Motor Fire Eng. Corp., 2 Rector St.; also, Brewster.
- Lewis, David J., Jr., Sales Mgr., Lytton Mfg. Corp., 1159 Hudson Terminal Bldg., 50 Church St.
- Libbey, Richard Henry (Junior), Otis Elev. Co.
- Lieb, John W., Jr., V. P., The N. Y. Edison Co., 55-57 Duane St.
- Lighthipe, Wm. W., Mgr. Service Dept., Asst. to Genl. Sales Mgr., Otis Elev. Co., Otis Elev. Bldg., 11th Ave and 26th St.
- Lillibridge, Ray D., Pres., Ray D. Lillibridge Inc., 2109 Trinity Bldg., 111 Broadway.
- Lindstrom, J. A., Struc. Engr., Genl. Chem. Co., 25 Broad St.
- Linker, Abraham (Junior), Sales Engr., Edwin Burhorn Co., 71 Wall St.
- Lipps, Henry, Jr., Contr. Engr., 683 Rosewood St., Williamsbridge.
- Livingston, Robert R., Cons. and Constr. Engr., 2 Rector St.
- Lockwood, James Fred, Mgr., Security Elev. Safety Co., 126 W. 18th St.

NEW YORK, New York City (Continued).

- Lockwood, Ryland Leonard, Pres., Lockwood & Almquist, 1 Madison Ave.
- Longacre, Fredk. v. D., Ch. Engr. Elec. Dept., Ingersoll-Rand Co., 11 Broadway.
- Longenecker, Charles, Pres., Chas. Longenecker & Co., 150 Nassau St.
- Lorsch, Edwin S., Member of Firm, Sussfeld, Lorsch & Co., 90-94 Maiden Lane.
- Loud, Henry S., Ch. Engr., U. S. Wood Preserving Co., 165 Broadway.
- Loudon, Andrew Charles (Junior), Assoc. Editor, Railway Age Gazette, Woolworth Bldg.
- Low, Fred R., Editor, Power, 505 Pearl St.
- Loyd, John, Pres., John Loyd Co., 558-562 Water St.
- Lucke, Charles E., Prof. Mech. Engrg., Columbia Univ.
- Ludeman, Edwin Henry, Steam Engr., 165 Broadway.
- Lufkin, Elgood Chauncey, V. P., The Texas Co., 17 Battery Pl.
- Lyle, Joel Irvine, Mgr., Carrier Air Conditioning Co., 39 Cortlandt St.
- McAllister, Addams S., Editor, Electrical World, 239 W. 39th St.
- McClellan, William, 141 Broadway.
- McCormack, Leonard J. (Junior), Industrial Engr., Van Gelder, Knoeppel & Young, 55 Liberty St.
- McCreery, James Harold (Junior), 1772 Fulton Bldg., 50 Church St.
- McFarland, Walter M., Babcock & Wilcox Co., 85 Liberty St.
- McIver, Alexander, Westinghouse Elec. & Mfg. Co., 165 Broadway.
- McJilton, John Perkins (Junior), Draftsman, Loco. Superheater Co., 30 Church St.
- McKee, Joseph J., Mgr., C. A. Dunham Co., 5013 Metro. Life Bldg.
- McKee, Neal Trimble, Asst. Mech. Engr., Loco. Superheater Co., 30 Church St.
- McKiever, Wm. Henry, Htg., Ventilating, Power Plants, Everett Bldg., 45 E. 17th St.
- McKinney, Robt. C., Pres., Niles-Bement-Pond Co., Pratt & Whitney Co., 111 Broadway.
- McMillin, Emerson, Chairman Bd. of Directors, Am. Light & Traction Co., 40 Wall St.
- McNaughton, James, V. P., Am. Loco. Co., 30 Church St.
- MacLaren, Malcolm Neill, Nordberg Mfg. Co., 42 Broadway.
- MacLauchlan, James H., Genl. Mgr., Surety Engrg. Co., Inc., 127 Duane St.
- MacLeod, Daniel T., Asst. Engr., The Schniewind Coke Oven Co., 6 Church St.
- MacMaster, Ronald Kellogg (Junior), Exec. Dept., Am. Soc. M.E., 29 W. 39th St.
- Macdonald, James V. (Junior), Member of Firm, Ranald H. Macdonald & Co., 29 W. 34th St.
- Maclaren, J. Gayton, Member of Firm, Butler & Maclaren, 5, 7 and 9 W. 37th St.
- Macon, William Watts, Engrg. Editor, The Iron Age, 239 W. 39th St.
- Maguire, Jeremiah De Smet, Pres., Maguire Rubber Co., Anchor Packing Co., and R. R. Utilities Co., 6 Church St.

NEW YORK, New York City (Continued).

- Mahl, Frederick William, Asst. to Dir. of Maintenance and Operation, Union Pacific System So. Pacific Co., Rm. 2506, 165 Broadway.
- Marble, Harry Mills (Junior), Solicitor of Patents, 141 Broadway.
- Marburg, Louis C., Secy. and Treas., Marburg Bros., Inc., U. S. Rubber Bldg., 1790 Broadway.
- Marks, Harry J., N. Y. Rep., Am. Eng. & Elec. Co., 90 West St.
- Marshall, Ernest Woods, Pat. Lawyer, 76 William St.
- Marshall, Waldo H., Pres., Am. Loco. Co., 30 Church St.
- Marshall, Wm. Crosby, Cons. Engr., Federal Sugar Refining Co., 91 Wall St.
- Martin, George W., V. P. and Genl. Mgr., The N. Y. Service Co., 320 Broadway.
- Martin, Kingsley Gould (Junior), The Central Fdy. Co.
- Mason, Daniel A., Supt., N. Y. Tribune Bldg., 154 Nassau St.
- Masury, Alfred Fellows, Factory Mgr., Hewitt Motor Co., 102 West End Ave.
- Matlock, Chauncey, Cons. Mech. Engr., 30 E. 42d St.
- Matty, Leo J. (Junior), Pat. Lawyer, 141 Broadway.
- Mauger, David Napier (Junior), The Babcock & Wilcox Co., 85 Liberty St.
- Maurhoff, Presley A. L., Rep. and Engr., Stand. Plunger Elev. Co., 115 Broadway.
- Mawson, Robert, Assoc. Editor, American Machinist, 505 Pearl St.
- Megirian, Joseph J. (Junior), Mech. Engr., Woolworth Bldg.
- Meier, E. D., Pres., and Ch. Engr., Heine Safety Boiler Co., 11 Broadway.
- Merriam, Henry P., 243 Waverly Pl.
- Merrill, Albert S. (Junior), Turner Constr. Co., 11 Broadway.
- Mersereau, Theodore T., Mech. Engr., 80 Broad St.
- Mershon, Ralph D., Cons. Elec. and Mech. Engr., 80 Maiden Lane.
- Merz, Robert G., Mech. Engr. and Ch. Draftsman, Am. Process Co., 68 William St.
- Messner, Manfred (Junior), Asst. to Ch. of Constr., Speedwell Constr. Co., 505 Fifth Ave.
- Meyer, Henry Coddington, Jr., Cons. Mech. Engr., Architects Bldg., 101 Park Ave.
- Michel, A. Eugene, Adv. Engr., Woolworth Bldg., 233 Broadway.
- Midgley, Frederick W. (Junior), Ch. Draftsman Eng. Dept., Otis Elev. Co.
- Miller, Fred J., Factory Mgr., Remington Typewriter Co., 293 Broadway.
- Miller, Spencer, Lidgerwood Mfg. Co., 96 Liberty St.
- Milner, Bert Branson (Junior), Spec. Engr., N. Y. Central Lines, Grand Central Terminal.
- Minck, Peter (Junior), Asst. to Sales Mgr., N. Y. Office, Kilbourne & Jacobs Mfg. Co., 25 Broad St.
- Mills, Edmund, Marine Dept., Babcock & Wilcox Co., 85 Liberty St.
- Mitchell, Albert E., V. P., Wyckoff Pipe & Creosoting Co., Inc., 50 Church St.

NEW YORK, New York City (Continued).

- Mitchell, Benjamin M., Pres., Conveying Weigher Co., Engr. of Tests, N. Y. Lubricating Oil Co., and Mech. Engr., Manhattan Rubber Mfg. Co.
- Mizuno, Seichi, 606 W. 113th St.
- Molé, Harvey E., 55 Liberty St.
- Monaghan, Wm. Franchère, Engrg. Dept., N. Y. Edison Co., 55 Duane St.
- Monks, Wm. Douglas (Junior), Asst. Ch. Engr. Refrigerating Mch. Dept., De La Vergne Mch. Co., foot of E. 138th St.
- Moore, Charles A., Pres., Manning, Maxwell & Moore, Inc., 119 W. 40th St.
- Moore, William James Perry, Alberger Pump & Condenser Co., 140 Cedar St.
- Moran, Daniel E., Cons. Engr., 55 Liberty St.
- Morford, Thomas E., Mgr. N. Y. Office, Am. Steam Pump Co., 17 Battery Pl.
- Morgan, John D., Pat. Solicitor, Mech. Expt. and Atty., 2 Rector St.
- Morrison, Clarke J., V. P. and Ch. Engr., Froggatt, Morrison & Co., Inc., 149 Broadway.
- Morrow, Robert Lee (Junior), Inspr., The Fidelity & Casualty Co.
- Morse, Chas. M., Cons. Mech. Engr., 2 Rector St.; also, Buffalo.
- Mullaney, John J., 150 Nassau St.
- Müller, Frederick (Junior), Engr., Müller Mfg. Co., 1198 Franklin Ave.
- Müller, T. H., Cons. Engr., Federal Sugar Refining Co., Rm. 807-809, 91 Wall St.
- Mumford, Edgar Huidekoper, V. P. and Genl. Mgr., Mumford Molding Mch. Co., 30 Church St.
- Murphy, Benjamin Stewart (Junior), Asst. Engr. Mech. Dept., Hudson & Manhattan R. R. Co., 30 Church St.
- Murphy, Thomas Robert Hoysted (Junior), Member of Firm, Joseph H. Wallace & Co., 914 Temple Court.
- Murray, Thomas Edward, V. P., N. Y. Edison Co., 57 Duane St.
- Murrie, John L. (Junior), Ford, Bacon & Davis, 115 Broadway.
- Muther, Ellis F., East. Sales Mgr., Gisholt Mch. Co., 50 Church St.
- Muzzarelli, G. Stuart (Junior), Contr. Engr., N. Y. Structural Co., 50 Church St.
- Myers, David Moffat, Cons. Engr., 17 Battery Pl.
- Myers, James Lawrence (Junior), Mech. Engr., Coast Coaling Co., 17 Battery Pl.
- Nate, Emile Henry (Junior), Pres. and Treas., The Nate-Earle Co., Inc., 581 Eleventh Ave.
- Nathan, Alfred (Junior), Pres., Nathan Mfg. Co., 101 Park Ave.
- Neave, Pierson Mitchell (Junior), Telephone Engr., West. Elec. Co., Bethune and West Sts.
- Neff, Elmer Hartson, N. Y. Mgr., Brown & Sharpe Mfg. Co., Rm. 900, 20 Vesey St.
- Neff, John P., Ch. Engr. and Asst. to Pres., Am. Arch Co., 30 Church St.
- Nelson, James W., Mgr., Supt. and Engr., Estate of Richard Dudgeon, 82 Broome St.
- Newcomb, Robert Scott (Junior), Mech. Engr., Walker & Chambers, 222 E. 41st St.

NEW YORK, New York City (Continued).

- Newell, Charles Z., Mech. Engr., Federal Leather Co., Rm. 202, 47 W. 42d St.
- Newell, William (Junior), Mech. Engr., Bureau of Factory Inspc., N. Y. State Dept. of Labor, 381 Fourth Ave.
- Nichols, Charles Hart, Cons. Engr., 1133 Broadway.
- Nichols, Charles K., Engr. of Power, The N. Y. Edison Co., 55 Duane St.
- Nichols, William Wallace, Asst. to Chairman of Bd., Allis-Chalmers Mfg. Co., 30 Church St.
- Nickerson, Alvano T., W. S. Barstow & Co., 50 Pine St.
- Noble, Alfred, 7 E. 42d St.
- Norden, Carl L. (Junior), Engr., The Sperry Gyroscope Co., 40 Wall St.
- Norris, Henry Lee (Junior), Supt. Bldgs. and Grounds, Columbia Univ.
- Norris, James U. (Junior), Asst. Mgr., The Rockefeller Inst. for Medical Research, 66th St. and Ave. A.
- Oatley, Henry Bigelow, Mech. Engr., Loco. Superheater Co., 30 Church St.
- Oberg, Erik V., Assoc. Editor, Machinery, 140-148 Lafayette St.
- Ohmes, Arthur K., Member of Firm, Nygren, Tenney & Ohmes, 101 Park Ave.
- Omdal, Torgeir, Mech. Engr., Lieberman & Sanford Co., 627 W. 57th St.
- Orr, Alexander Macklin, Jr. (Junior), Partner, Gielow & Orr, 52 Broadway.
- Orrok, Geo. A., Mech. Engr., N. Y. Edison Co., 55 Duane St.
- Ortner, Louis, Fuel Expt. and Efficiency Engr., Dept. of Water Supply, Gas and Elec. of City of N. Y., 21 Park Row.
- Osborne, Charles T., Pres., Osborne, Rea & Co., 241-243 W. 41st St.
- Ostgren, Gottfrid L., Elec. Engr., N. J. Zinc Co., 55 Wall St.; also, Palmerton, Pa.
- Ostrander, Allen Edward, Asst. Mech. Engr., Am. Car & Fdy. Co., 165 Broadway.
- Otto, Henry S. (Junior), Cons. Engr. and Mchy. Importer, 1876 Broadway.
- Oviatt, David B., Asst. Engr., Bd. of Water Supply, City of N. Y., 147 Varick St.
- Painter, Stephen Henry, Mgr. Calyx Drill Dept., Ingersoll-Rand Co., 11 Broadway.
- Parish, Wm. F., Mgr. Lubricating Div., The Texas Co., 17 Battery Pl.
- Park, Franklin A., V. P., The Singer Mfg. Co., 149 Broadway.
- Parker, Levin S., Ch. Engr., Atlas Dredging Co., 1629 Whitehall Bldg.
- Parr, Harry L., Asst. Prof. Mech. Engrg., Columbia Univ.
- Parsons, H. de B., Prof. Emeritus, Rensselaer Poly. Inst., Troy, and Cons. Engr., 22 William St.
- Parsons, W. Everett, Cons. Engr., Marbridge Bldg., 34th St. and Broadway.
- Patterson, A. W., Jr., Asst. Mgr., The Yale & Towne Mfg. Co., 9 E. 40th St.
- Pattison, Frank A., Cons. Engr., Centurian Bldg., 1182 Broadway.

NEW YORK, New York City (Continued).

- Payne, Nathan B. (Junior), Mgr. of Sales, Davis-Bournonville Co., 30 Church St.
- Peabody, E. H., Marine Dept., The Babcock & Wilcox Co., 85 Liberty St.
- Pearce, Robert Thomas, East. Mgr., H. W. Caldwell & Son Co., 50 Church St.
- Pearsall, Gilbert H., V. P., Jacobs-Shupert Firebox Co., 30 Church St.
- Pearson, F. S., Cons. Engr., 115 Broadway.
- Pearson, Walter Ambrose, 135 Front St.
- Peck, Chas. B., Mgr., B. F. Sturtevant Co., 50 Church St.
- Penney, Harold D., Pat. Solicitor and Mech. Expt., Francis H. Richards, 9-15 Murray St.
- Pentecost, Arthur, Supt. Peirce Patents Co., 220 Fifth Ave.
- Peper, John Henry, Jr., (Junior), Engr., 26 Broadway.
- Perkins, Julius A., Mech. Engr., 42 Broadway.
- Perry, Samuel B. (Junior), Ins. Engr., 68 William St.
- Perry, Wm. A., 111 Broadway.
- Phelps, Charles C. (Junior), Publicity Dept., Ingersoll-Rand Co., 11 Broadway.
- Phillips, Ellis L. (Junior), Pres., E. L. Phillips & Co., 50 Church St.
- Pierce, Frederic Emery, Ch. Engr., The N. J. Zinc Co., 55 Wall St.
- Pigott, Reginald J. S. (Junior), I. R. T. Co., 600 W. 59th St.
- Place, Clyde R., Mech. Engr., 70 E. 45th St.
- Platt, John, Pres., John Platt & Co., 97 Cedar St.
- Pollak, Charles P., Engineers' Club, 32 W. 40th St.
- Pomeroy, L. R., Cons. Engr., 105 W. 40th St.
- Pond, Henry O., Mech. Engr., Westinghouse Church Kerr & Co., 37 Wall St.
- Pope, Frederick, Cons. Engr., 366 Fifth Ave.
- Porter, H. Hobart, Sanderson & Porter, Engrs., 52 William St.
- Porter, Holbrook F. J., Cons. Engr., Masonic Hall, 23d St. and Sixth Ave.
- Potter, Philip Arthur, Treas., Crownshield Trading Corp., 30 Church St.
- Powell, Marcus, Mgr., Crosby Steam Gage & Valve Co., 44 Dey St.
- Powers, Alexander Merrell (Junior), Mech. Engr., S. K. F. Ball Bearing Co., 50 Church St.
- Powers, James, V. P., Powers Accounting Mch. Co., 50 Church St.
- Pratt, Henry Fobes (Junior), Engr., Francisco & Jacobus, 200 Fifth Ave.
- Pressinger, W. P., Mgr. Compressor Dept., Chicago Pneu. Tool Co., 50 Church St.
- Preston, Geo. B., Asst. Prof. Steam Engrg., Columbia Univ.
- Price, William T. (Junior), Oil Eng. Sales Mgr., De La Vergne Mch. Co., foot of E. 138th St.
- Primrose, John, Ch. Engr., Power Spec. Co., 111 Broadway.
- Prindle, Edwin Jay, Pat. Law, Prindle & Wright, Trinity Bldg., 111 Broadway.
- Proal, Arthur B., Jr., Sales Engr., Robins Conveying Belt Co., Park Row Bldg., 13 Park Row.
- Prosser, Thomas, Thomas Prosser & Son, 15 Gold St.

NEW YORK, New York City (Continued).

- Pryor, Robert W., Jr., Member of Firm of Koithan & Pryor, 39 Cortlandt St.
- Putnam, Morris Havens, Engr. and Genl. Mgr., Terry Constr. Co., 252 W. 60th St.
- Quick, Howard Prescott, Mech. Engr., The Pearson Engrg. Corp., Ltd., 115 Broadway.
- Quigley, Wirt Stanley, V. P., Quigley Furnace & Fdy Co., 105 W. 40th St.
- Quimby, William E., Pres., Wm. E. Quimby, Inc., 548 W. 23d St.
- Ramsay, Herbert Hartley (Junior), Asst. Engr. with John Hays Hammond and Harris Hammond, 71 Broadway.
- Raqué, Philip E., Cons. Engr., 132 Nassau St.
- Rasmussen, Find, Genl. Supt., Greenlie-Halliday Co., 499 Water St.
- Rautenstrauch, Walter, Prof. Mech. Engrg., Columbia Univ.
- Ray, David H., Cons. Engr., 27 W. 33d St., Secy. and Treas., Kensington Mfg. Co., 545 W. 79th St.
- Ray, Frederick (Junior), Ch. Engr., Alberger Pump & Condenser Co., 140 Cedar St.
- Ray, Martin Hasset (Junior), Cons. Engr., Dept. of Public Safety of Philadelphia, Pa., Field Supvr. Training Sch. for Public Service, Bureau of Municipal Research, 261 Broadway.
- Redlein, George L., Engr., Van Gelder, Knoeppel & Young, 55 Liberty St.
- Reed, William E., 71 Broadway.
- Reese, Dale Fleming (Junior), Supt. Steam Boiler Dept., Ocean Accident & Guarantee Corp., Ltd., 59 John St.
- Reid, Robert C., Mgr. Truck Dept., Harrolds Motor Car Co., 233 W. 54th St.
- Reno, Jesse Wilford, Cons. Engr., Otis Elev. Co., 11th Ave and 26th St.
- Reynolds, Herbert Byron (Junior), Asst. Engr. M. P. Dept., Interborough Rapid Transit Co., 59th St. and 11th Ave.
- Reynolds, John P., Jr. (Junior), Mech. Engr., Dept. of Water Supply, Park Row Bldg.
- Rice, Calvin W., Cons. Engr., Secretary, Am.Soc.M.E., 29 W. 39th St.
- Richards, Charles R., Dir., Cooper Union.
- Richards, Charles W., Factory Mgr., Twombly Motors Co., 258 W. 69th St.; also, Chicopee, Mass.
- Richards, Francis H., Mech. Engr., Pat. Atty., 9-15 Murray St.; also, Hartford, Conn.
- Richards, Frank, Managing Editor, Compressed Air Magazine, and Ingersoll-Rand Co., 11 Broadway.
- Richardson, Clifford, Cons. Engr., 1615 Woolworth Bldg., 233 Broadway.
- Richardson, Thomas, Ch. Draftsman, W. S. Barstow & Co., 50 Pine St.
- Richmond, Julian, Asst. Engr., Bd. of Water Supply, Municipal Bldg.
- Ricker, Wm. Wood, Treas. and Secy., Guarantee Constr. Co., 140 Cedar St.
- Ricketts, Edwin Burnley (Junior), N. Y. Edison Co., 40th St. and 1st Ave.

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- Riege, Rudolph, Management of Engrg. Dept., Wright Schooley & Morse, 902-904 Woolworth Bldg., 233 Broadway.
- Robertson, John C., Jr. (Junior), Inspr. Fireproof Bldgs., N. Y. Bd. of Fire Underwriters.
- Robinson, Arthur L., Engrs.' Club, 32 W. 40th St.
- Robinson, Frank H., Treas., Walter H. Foster Co., 1479 Fulton Bldg., 50 Church St.
- Roelker, H. B., Mech. Engr., 41 Maiden Lane.
- Rogers, Fred. E., Editor, Machinery, 140-148 Lafayette St.
- Rogers, Robert Fletcher, Pat. Lawyer, 45 Broadway.
- Roney, William R., Pres., Securities & Constr. Co. of Am., 15 William St.
- Ross, Charles Everett, Cons. Engr., 52 Beaver St.
- Ross, Philip Lawrence (Junior), Mech. Engr., Gunn, Richards & Co., 43 Exchange Pl.
- Rowntree, Bernard, East. Mgr., Burdett-Rowntree Mfg. Co., Rm. 1774, 50 Church St.
- Rowse, William Crapo (Junior), Cutler-Hammer Mfg. Co., 144th St. and Southern Blvd.
- Royse, Daniel, Asst. to V. P., Union Pacific R. R., 165 Broadway.
- Ruckles, Jos. J., Jr., Engr. with Geo. F. Hardy, 309 Broadway.
- Ruddy, William (Junior), 961 St. Nicholas Ave.
- Rudolphi, Frank, Mgr. Equip. Dept., Am. Can Co., 447 W. 14th St.
- Ruggles, Wm. Barker, Pres., Ruggles-Coles Engrg. Co., 50 Church St.
- Ruppel, Richard (Junior), Mech. Engr., Griggs & Holbrook, 3 S. William St.
- Rust, Robert R., Engr. in Charge of Operation, also Asst. Secy., The Central Fdy Co.
- Rutherford, Eugene W., Mech. Engr. and Asst. to Genl. Mgr., U. S. Rubber Co., 42 Broadway.
- Ryan, William John (Junior), Asst. Mech. Engr., Pa. Coal & Coke Corp., 17 Battery Pl.
- Ryder, Gilbert E., Sales Engr., Loco. Superheater Co., Rm. 2001, 30 Church St.
- Sanborn, Francis Noel (Junior), Pres., Sanborn-Russell Constr. Co., Inc., 37 Liberty St.
- Sanderson, Edwin N., Sanderson & Porter, 52 William St.
- Sanford, Warren Bixby, Acting Supt., West. Elec. Co., 463 West St.
- Sanguinetti, Phillip C., Production Engrg. Dept., Marwick, Mitchell & Co., 79 Wall St.
- Sar Vant, Wilbur N., Asst. Engr., Am. Process Co., 68 William St.
- Saunders, William Lawrence, Chairman of Bd., Ingersoll-Rand Co., 11 Broadway.
- Sayer, Eugene Young, 60 Wall St.
- Sayre, William Heysham, Pres., Am. Abrasive Metals Co., 50 Church St.
- Schaefer, Frederick Rullman (Junior), Dist. Sales Mgr., Taylor-Wharton Iron & Steel Co., Rm. 730, 30 Church St.
- Schaeffer, Simon S. (Junior), Ch. Mech. Engr., Thompson-Starrett Co., 51 Wall St.
- Schaeffler, Joseph C., Arch. and Engr., 38-40 W. 32d St.

NEW YORK, New York City (Continued).

- Schaphorst, William Frederick (Junior), Asst., A. Eugene Michel & Staff, Woolworth Bldg.
- Scheele, John M. B. (Junior), 1479 Fulton Bldg., 50 Church St.
- Scheffler, Frederick A., Babcock & Wilcox Co., 85 Liberty St.
- Schmidt, George G. (Junior), Asst. Engr., Positive Differential System Co., 132 Nassau St.
- Schmidt, Ferdinand L., Mch. Mfg., 150 Eleventh Ave.
- Schnuck, Edward F., Production Engr. and Treas., Jabez Burns & Sons, 600 W. 43d St.
- Scholl, Julian, Mech. Engr. and Mfr. Road Making Mchy., 126 Liberty St.
- Schoolfield, Frank R., Ch. Draftsman, Ford, Bacon & Davis.
- Schott, Dr. Otto, Cons. Engr. and Tech. Chem., 125 E. 23d St.
- Schuetz, Frederick F. (Junior), Solicitor of Patents and Mech. Engr., Hudson Terminal Bldg., 50 Church St.
- Schwab, Charles M., Pres., Bethlehem Steel Co., 111 Broadway; also, South Bethlehem, Pa.
- Schwanhausser, William, Ch. Engr., Internatl. Steam Pump Co., 115 Broadway.
- Schwartz, Carl, First Asst. Engr., N. Y. C. & H. R. R. R. Co., 5048 Grand Central Terminal.
- Scott, James K. (Junior), Draftsman, Loco. Superheater Co.
- Seaman, Edwin H. (Junior), Ins. Engr. with Underwriters at Am. Lloyds, 123 William St.
- Seaman, Henry B., Cons. Engr., 165 Broadway.
- Sedgwick, Edw. V., Galena-Signal Oil Co., 17 Battery Pl.
- See, Alonzo B., A. B. See Elec. Elev. Co., 220 Broadway.
- Seligman, Walter (Junior), Power Plant Wk., 1 William St.
- Sellew, Welles Hamilton (Junior), Otis Elev. Co., 26th St. and 11th Ave.
- Sergeant, Chas. H., 561 Fordham Rd.
- Serrell, John A., 71 Murray St.
- Sewall, M. W., Babcock & Wilcox Co., 85 Liberty St.
- Shafter, Ruland R. (Junior), Estimating and Sales Engr., Traylor Engrg. & Mfg. Co., 30 Church St.
- Shaw, James Groveton, Ch. Inspr., The Travelers Ins. Co. and The Travelers Indemnity Co., 30-42 E. 42d St.
- Shepard, George H., Emerson Co., 30 Church St.; also, Buffalo.
- Shiebler, Marvin, Cons. Engr., 50 Church St.
- Siegel, Fred Jack (Junior), Mech. Engr., Conveying Mchy. Co., 50 Church St.
- Simpson, Colin Campbell, Jr. (Junior), Asst. Genl. Supt., Mains and Services, Consltd. Gas Co. of N. Y., 4 Irving Pl.
- Simpson, William K. (Junior), Mech. Engr., Nason Mfg. Co., 71 Fulton St.
- Sinclair, Dr. Angus, Editor and Publisher, Angus Sinclair Co., 114 Liberty St.
- Slade, Arthur J., 1414 Times Bldg., 42d St. and Broadway.
- Slauson, Harold W. (Junior), Mgr. Motor Dept., Leslie's Weekly, 225 Fifth Ave.
- Slee, Norman S., Babcock & Wilcox Co., 85 Liberty St.
- Sleffel, Charles Conrad, Asst. Prof. Industrial Arts, Teachers College, Columbia Univ.
- Slichter, Walter I., Prof. Elec. Engrg., Columbia Univ.
- Sloan, Ben, Salesman, Pratt & Whitney Co., 111 Broadway.
- Sloane, Charles O'Connor (Junior), Sales Mgr., Automatic Weighing Mch. Co., 136 Commerce St.

NEW YORK, New York City (Continued).

- Slocum, Chester A. (Junior), Cons. Engr., Douglas Sprague & Associates, 39 Cortlandt St.
- Sly, Frederick Sanford, The American Architect, 50 Union Sq.
- Smith, A. Parker, Lawyer, Counsel in Pat. Cases, U. S. Express Bldg., 2 Rector St.
- Smith, Allen C., Otis Elev. Co.
- Smith, Dyer, Counsel in Pat. Cases and Solicitor of Patents, 1180-1184 Woolworth Bldg., 233 Broadway.
- Smith, Edric Brooks, Asst. Mgr. Rockefeller Inst. for Medical Research, 66th St. and Ave. A.
- Smith, Edward Jos., Cons. Engr. and Mfrs'. Agt., 30 Church St.
- Smith, J. Waldo, Ch. Engr., Bd. of Water Supply, Municipal Bldg.
- Smith, Jesse M., Mech. and Elec. Engr. and Expt. in Pat. Causes, Rm. 1312, 90 West St.
- Sorzano, Jullo Frederico, Cons. Civ. and Mech. Engr., Pres., Pan-Am. Chamber of Commerce, 42 Broadway.
- Sparrow, John Porterfield, Ch. Engr., N. Y. Edison Co., 55 Duane St.
- Specht, Victor George (Junior), Draftsman M. P. Dept., Interborough Rapid Transit Co. and N. Y. Rys. Co.
- Spilsbury, Edmund Gybbon, Cons. Engr., 45 Broadway.
- Spiro, Charles, Pres. and Genl. Mgr., Columbia Typewriter Mfg. Co., 39 W. 116th St.
- Stangland, B. F., Mech. Engr., 45 Fulton St.
- Stanley, Frank A., Assoc. Editor, American Machinist, 505 Pearl St.
- Stanton, Alden D. (Junior), Asst. Supt., Columbia Univ.
- Stanton, Francis A. O'C. (Junior), Counsellor-at-Law in Pat. Causes, 2 Rector St.
- Stanton, Frank McMillan, Min. Engr., 29 Broadway.
- Starr, John Edwin, Pres., Starr Engrg. Co., 90 West St.
- Stebbins, Theodore, 27 W. 67th St.
- Stecher, Charles Edouard, Asst. Mech. Engr., The Pearson Engrg. Corp., Ltd., 115 Broadway.
- Steel, Reginald Armstrong (Junior), Estimator and Draftsman, McDougall & Potter Co.
- Stehlin, Joseph, Pres., Farmers Feed Co. of N. Y., 532 E. 76th St.
- Stephens, Phinehas V., Cons. Engr., 796 E. 175th St.
- Stevens, Alfred H., Engr. and Contr., 149 Broadway.
- Stevens, Robert H., Stevens Bros., 149 Broadway.
- Stevens, Wm. N. (Junior), Stevens-Aylsworth Co., 90 West St.
- Stevenson, T. Kennedy (Junior), Ch. Engr., Duplex Metals Co., 30 Church St.
- Stillman, Edwin A. (Junior), Pres., Watson-Stillman Co., 50 Church St., and Aldene, N. J.
- Stone, Mason A., Jr. (Junior), Ralph D. Mershon, Cons. Engr.
- Stott, Henry G., Supt. M. P., I. R. T. Co., and N. Y. R. R. Co., 600 W. 59th St.
- Stoughton, Bradley, Secy, Am. Inst. of Min. Engrs., Cons. Engr., 29 W. 39th St.; also, New Canaan, Conn.
- Stovel, Russell W., Managing Engr., Westinghouse Church Kerr & Co., 37 Wall.
- Stratton, E. Platt, Engr. and Naval Arch., Supvr., Am. Bureau of Shipping, and Am. Lloyds, Cons. Engr., Surveyor to Bd. of Underwriters of N. Y., 66 Beaver St.

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 Street, Edgar L., Cons. Engr., 43 Cedar St.
 Sturgis, Raynor Francis (Junior), Cost Accountant, Corn Products Refining Co., 17 Battery Pl.
 Suplee, Henry Harrison, 203 W. 81st St.
 Suter, Geo. A., Pres., G. A. Suter & Co., 112 Wooster St.
 Sutton, Frank, Cons. Engr., 80 Broadway.
 Suverkrop, Edward Albert, Assoc. Editor, American Machinist, 505 Pearl St.
 Swan, John Joseph, The Oil Power Engrg. Corp.
 Swenson, Bernard Victor, Barron G. Collier, Inc., 175 Fifth Ave.
 Symonds, George P., Constr. Engr., Alberger Pump & Condenser Co., 140 Cedar St.
 Tallmadge, Webster, Engr., Westinghouse Mch. Co., 165 Broadway.
 Taylor, George W. K., 104-106 John St.
 Taylor, John T., Supt., 156 Fifth Ave.
 Taylor, Stevenson, V. P., Quintard Iron Wks. Co., 742 E. 12th St.
 Taylor, Stevenson Peirce (Junior), Engrg. Salesman, Alberger Pump & Condenser Co., 140 Cedar St.
 Taylor, Wyatt W., Asst. Engr., Am. Can Co., 447 W. 14th St.
 Ten Broeck, Floyd G., Cons. Engr., Fifth Ave. Bldg., 200 Fifth Ave.
 Tenney, Theodore Smith, Nygren, Tenney & Ohmes, 101 Park Ave.
 Terwilliger, Gerald Edgar (Junior), Pat. Lawyer; Managing Editor, The Stevens Indicator, 1 Liberty St.
 Thomas, Charles W., Asst. Prof. Mech. Dept., Columbia Univ.
 Thomas, James Winthrop, Engr., The United Gas & Elec. Corp., 40 Wall St.
 Thomson, John, Pres., John Thomson Press Co., 253 Broadway.
 Thomson, John Edgar (Junior), V. P. and Treas., John Thomson Press Co., 253 Broadway.
 Thomson, T. Kennard, Cons. Engr., Hudson Terminal Bldg., 50 Church St.
 Thornley, Fred Curtis, Secy. and Production Mgr., Robins Conveying Belt Co., Park Row Bldg.
 Thorp, Frederick P. (Junior), Cons. Engr., 400 Riverside Drive.
 Thullen, L. H., 30 Church St.
 Thurston, Edward D., Jr., Instr. Dept. of Mech. Engrg., Columbia Univ.
 Timmis, Walter S., Cons. Engr., Marbridge Bldg., 47 W. 34th St.
 Tischner, Charles F., Jr. (Junior), Pat. Atty., 149 Broadway.
 Titcomb, George E., Sales Mgr., McMyler Interstate Co., 50 Church St.
 Tobin, Robert P., Ch. Tech. Dept., Vacuum Oil Co., 29 Broadway.
 Torrance, Henry, Jr., V. P. and Treas., Carbondale Mch. Co., 50 Church St.
 Torrey, Herbert Gray, Assayer and Metallurgist, Rm. 309, 10 Wall St.

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- Town, Frederic E., Dist. Sales Mgr., Otis Elev. Co., 26th St. and 11th Ave.
- Towne, Thos., Engineers' Club, 32 W. 40th St.
- Trautschold, Reginald (Junior), Cons. Engr., 160 Waverly Pl.
- Tribken, Charles W., Engr., Automatic Sprinkler Co. of Am., 123 William St.
- Troth, P. Howard, The Fairbanks Co., 416 Broome St.
- Tucker, Edwin D., Mech. Engr., 308 W. 104th St.
- Turnbull, William F., Asst. Ch. Clerk Engrg. Dept., Am. Loco. Co., 30 Church St.
- Turno, Walter G. W. (Junior), Engr. and Estimator, H. W. Johns-Manville Co., 41st St. and Madison Ave.
- Tuska, Gustave R., Cons. Engr., 68 William St.
- Tuttle, Irving E. (Junior), Engr., Westinghouse Church Kerr & Co., 37 Wall St.
- Twining, Wm. S., Ford, Bacon & Davis, 115 Broadway.
- Uebelacker, Charles F., Member of Firm, Ford, Bacon & Davis, 115 Broadway.
- Ulmann, Chas. J., Mech. Engr., Bernhard Ulmann & Co., 107-113 Grand St.
- Ulrich, Max Julius, Designer Oil Eng. Dept., De La Vergne Mch. Co.
- Updegraff, William Barrett, Engrg. Dept., The Watson-Stillman Co., 50 Church St.
- Upton, Maxwell Mayhew, Secy., Ch. Engr. and Genl. Mgr., Raymond Concrete Pile Co., 140 Cedar St.
- Vanderbilt, Cornelius, 30 Pine St.
- Van Derhoef, Geo. Nixon, East. Cons. Engr., Dodge Mfg. Co., 21 Murray St.
- Van Winkle, Edward, Cons. Pat. Engr., West St. Bldg., Cedar and West Sts.
- Vehslage, Harold Edwin (Junior), Mech. Engr., Am. Cotton Oil Co.
- Veit, Richard C., Secy., Stand. Oil Co. of N. Y., 26 Broadway.
- Veitch, Thomas (Junior), Cons. Auto. Engr., 72 Trinity Pl.
- de Verastegui, Albert, Mgr. Export Dept., Babcock & Wilcox.
- Vickess, Samuel, Cons. Engr., 129 Front St.
- Vincent, Arthur S., Cons. Engr. and Supt., Belnord Apts., 86th St. and Broadway.
- Viola, Bartholomew, Cons. Engr., 140 Liberty St.
- Voorhees, Gardner Tufts, Refrig. Engr., Engineers' Club, 32 W. 40th St.
- Waern, A. W., Cons. Engr., Jos. H. Wallace & Co., Temple Court Bldg.
- Waitt, Arthur M., Pres., Stand. Third Rail Co., Cons. Engr., Rm. 1417, 165 Broadway.
- Waldo, Leonard, Cons. Engr., 802 Atlantic Bldg., 49 Wall St.
- Waldron, Frederick A., Industrial Engr., Rm. 2200, 37 Wall St.
- Wales, Chas. M., Agt., Otis Steel Co., Titusville Forge Co., 11 Broadway.
- Walker, Gilbert S., Asst. Inspc. Engr., Isthmian Canal Com., 24 State St.
- Wallace, Joseph H., Industrial Engr., Temple Court Bldg.

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- Walsh, Edward T., Constr. Engr. with Frederick A. Waldron, 39 Wall St.
- Walsh, Thomas J. (Junior), E. H. Rollins & Sons, 43 Exch. Pl.; also, Ansonia, Conn.
- Washington, William De Hertburn, 39-41 W. 32d St.
- Watson, Henry D., East. Sales Mgr., Internatl. Motor Co., 1770 Broadway.
- Weager, Theodore Alfred (Junior), Sales Engr., Carrier Air Conditioning Co., 39 Cortlandt St.
- Weber, Herman Frederick (Junior), Engr., Interstate Elec. Corp., 115 Broadway.
- Webster, Hosea, Dist. Sales Mgr., Babcock & Wilcox Co., 85 Liberty St.
- Webster, Lawrence Burns (Junior), Efficiency Engr., Am. Gas & Elec. Co., 30 Church St.; also, Marion, Ind.
- Weick, Charles William, Asst. Prof. in Industrial Arts, Teachers College, Columbia Univ.
- Weiss, Carl William, Mletz & Weiss.
- Weissblatt, Murray E. (Junior), Crocker-Wheeler Co., 30 Church St.
- Wells, G. A., Installation Engr., Autocar Co.
- Wells, James Hollis, Member of Firm, Clinton & Russell, 32 Nassau St.
- Wells, J. Leland, Cons. Engr., 245 W. 34th St.
- Wentworth, Reginald Andrew, Engr. with H. L. Gantt, 2915 Singer Bldg.; also, Lowell, Mass.
- Westinghouse, H. Herman, V. P., Westinghouse Air Brake Co., 165 Broadway.
- Westlin, Carl Torsten, Mech. Engr., Otis Elev. Co.
- Weston, Frederick Willoughby, Rep., Baldwin Loco. Wks., Stand. Steel Wks., 50 Church St.
- Wheeler, Wm. Trimble, 286 Greenwich St.
- Whinery, Samuel, Cons. Civ. Engr., 95 Liberty St.
- Whitcomb, LeRoy A. (Junior), Checker, N. Y. Edison Co., 55 Duane St.
- White, Merton G. (Junior), Ball Eng. Co., 39 Cortlandt St.
- Whittemore, Herbert L., Fayerweather Hall, Columbia Univ.
- Whyte, Frederic M., V. P., Hutchins Car Roofing Co., 103 Park Ave.
- Wilcox, Herbert Mygatt (Junior), Efficiency and Constr. Engr., Miller Franklin & Co., 17 Battery Pl.
- Wilder, Clifton W., Elec. Engr., Pub. Service Com., 154 Nassau St.
- Wiley, Wm. H., 432 Fourth Ave.
- Williams, Frank D., Engr. with Manuel Llera, 30 Church St.
- Williams, Franklin, Engrg. Specialties, 39 Cortlandt St.
- Williams, Harvey D., Cons. Engr., The Waterbury Tool Co., 889 St. Nicholas Ave.
- Williams, Louis William, Dist. Sales Mgr., Union Drawn Steel Co., 460 Washington St.
- Williams, Walter Gordon, Supt. of Constr., Doherty Operating Co., 60 Wall St.
- Williamson, Alfred, Mech. Engr., Dept. Water Supply, Gas & Elec., 13 Park Row.
- Wilson, Hugh Monroe, First V. P., McGraw Publishing Co., Inc., 239 W. 39th St.

NEW YORK, New York City (Continued).

- Wilson, Jacob D. (Junior), Pres., Genl. Mgr. and Mech. Engr., Am. Elev. Co., 113-115 Cedar St.
- Wilson, Wm. R. (Junior), Alberger Pump & Condenser Co., 140 Cedar St.
- Wippermann, William (Junior), Sales Engr., Yarnall-Waring Co., Nelson Valve Co., Rm. 301, 30 Church St.; also, Chilton, Wis.
- Wood, Benjamin F., Ch. Engr., The United Gas & Elec. Corp., 40 Wall St.
- Wood, Thomas C. (Junior), U. S. Inspr., Isthmian Canal Com., 24 State St.
- Woodwell, Julian E., Cons. Engr., Terminal Bldg., Park Ave. and 41st St.
- Woolson, Harry Thurber, Ch. Engr., Gas Eng. & Power Co. and Chas. L. Seabury & Co., Consldtd.
- Woolson, Ira H., Cons. Engr., Natl. Bd. of Fire Underwriters, 135 William St.
- Woolson, Orosco C., Constr. Engr. and Contr., 39 Cortlandt St.
- Worth, Charles C., Asst. Supt. Constr., N. Y. Edison Co., 55 Duane St.
- Wright, Roydon V., Managing Editor, Railway Age Gazette, Woolworth Bldg.
- Wylie, Howard M. (Junior), 10 W. 96th St.
- Wynkoop, Hubert S., Elec. Engr., Dept. Water Supply, Gas and Elec., 13-21 Park Row.
- Yereance, William B., Cons. Engr. and Operator for Public Utilities, 128 Broadway.
- York, H. W., Cons. Engr., Am. Smelting & Refining Co., 165 Broadway.
- Zehnder, Chas. H., Pres., Austen Coal & Coke Co., 140 Cedar St.
- Zilen, Victor W., Engrg. Dept. Car. Equip., Interborough Rapid Transit Co., 98th St. and Third Ave.
- Newburgh.**—Davison, Clarence M. (Junior), Mech. Engr., Alberger Pump & Condenser Co., Wks. Office.
- Niagara Falls.**—Coffin, Mitchell (Junior), S. M. Ryder & Son.
- Egbert, Chas. Coggill, Cons. Engr., 153 Gluck Bldg.
- Harper, John Lyell, Ch. Engr., Hyd. Power Co., and Cliff Elec. Dist. Co.
- Johnson, Raymond D., Hyd. Engr., Ontario Power Co., Drawer 496.
- Mitchell, W. H., Inspr., The Niagara Falls Power Co.
- Richardson, Alton A., Asst. Engr., Castner Electrolytic Alkali Co., 24th St. and Buffalo Ave.
- Wilson, Hugh, Supt., Ontario Power Co. of Niagara Falls.
- North Tonawanda.**—Bishop, Charles R., Secy. and Genl. Mgr., Am. Dist. Steam Co.
- Olean.**—Drew, Wilbert Shepard, Supvr. of Industrial Wk., Olean High Sch.
- Reid, Joseph Snively, Secy., Ch. Engr., Clark Bros. Co.
- Oneida.**—Leonard, Stephen Rose, Second V. P., Oneida Community, Ltd.
- Oswego.**—Brock, Walter I., Engr.
- Burleigh, Perry Gray (Junior).
- Fitzgibbons, David, V. P. and Genl. Mgr., Fitzgibbons Boiler Co.
- Gray, Niel, Jr., Prop., Oswego Mch. Wks.

NEW YORK, Oswego (Continued).

Hallock, Homan Fitzgreene (Junior), Mech. Engr., The Diamond Match Co.

Joy, Robert, Supt. of Boiler Dept., Kingsford Fdy. & Mch. Wks.

Owego, Tioga Co.—Farrington, Thos H., Civ. and Mech. Engr.

Painted Post.—Carpenter, Allan O., Designing Dept., Ingersoll-Rand Co.

Wickersham, Nathan R., Supt., Ingersoll-Rand Co.

Pearl River.—Hitchcock, Fred'k Matthew, Mgr., Dexter Folder Co.

Lyman, Elihu Root (Junior), Asst. Wks. Mgr., Dexter Folder Co.

Port Chester.—Boerner, Emile C., Cons. Mech. Engr., Russell, Burdsall & Ward Bolt & Nut Co.

Burdsall, Ellwood (Junior), Secy. and Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co.

Finley, A. D., Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co.

McWeeney, Laurence Riley (Junior), Factory Accountant, Russell, Burdsall & Ward Bolt & Nut Co.

Rupf, Ernest L. (Junior), Mech. Expt., Russell, Burdsall & Ward Bolt & Nut Co.

Port Ivory, S. I. (New York City).—Munson, Stanley (Junior), Ch. Engr., Proctor & Gamble Co.

Port Jervis.—Rogers, Robert W. (Junior), Practical and Tech. Instr. of Apprentices, Erie R. R. Shop.

Port Richmond, S. I. (New York City).—Mulheron, William (Junior), Engrg. Designer, S. I. Shipbuilding Co.

Port Washington, L. I.—Bullard, John Ervin, Mgr. New Business Dept., Pub. Service Corp. of L. I.

Potsdam.—Towle, William Mason, Prof. of Industrial Engrg., Clarkson College of Tech.

Poughkeepsie.—Goebler, Charles, Asst. Genl. Supt., The De Laval Separator Co.

Hart, Frederick, Pres., Frederick Hart & Co., Inc., 837 Main St.

Leitch, Meredith, Mech. Engr., De Laval Separator Co.

Miller, Theodore Harry, Supt., De Laval Separator Co.

Prince Bay, S. I. (New York City).—David, William Herbert, Mech. Draftsman, S. S. White Dental Mfg. Co.

Porter, Will Roswell, Asst. M. M., S. S. White Dental Mfg. Co., S. I. Factory.

Talbot, James Martin (Junior), Foreman, S. S. White Dental Mfg. Co.

Rochester.—Alexander, Chas. A., Pres. and Treas., The Alexander, Shumay & Utz Co., 16 State St.

Ancona, John F., Engr. Design and Constr., Kodak Park Wks., Eastman Kodak Co.

Austin, William S., Supvg. Engr., Kodak Park Wks., Eastman Kodak Co.

Bausch, Carl L., Asst. Mech. Supt., Bausch & Lomb Optical Co., 635 St. Paul St.

Buck, Lucien, Constr. Engr. Kodak Park Wks., Eastman Kodak Co.

Cochrane, Robert B., 555 Frost Ave.

Collins, Francis Alton (Junior), Sales Dept., Auburn Ball Bearing Co., 29 Elizabeth St.

NEW YORK, Rochester (Continued).

- Cook, E. J., V. P. and Genl. Mgr., N. Y. State Rys., Rochester Lines, 267 State St.
- Crocker, Allen Swift, Supt., Industrial Arts Dept., Mechanics Inst., and Cons. Engr., 55 Plymouth Ave.
- Davis, Robt. G., Supt. Ins. Bldg., German Am. Ins. Co., 19 W. Main St.
- Ernsberger, Millard Clayton, Prof. Mech. Engrg., Univ. of Rochester.
- Firestone, Sigmund, Cons. Mech. and Elec. Engr., Granite Bldg.
- Gleason, William, Pres., The Gleason Wks.
- Hawkins, Edgar Marvin (Junior), Genl. Mgr., M. D. Knowlton Co., 29-35 Elizabeth St., and Auburn Ball Bearing Co., Auburn.
- Hinrichs, Frederic William, Jr., Asst. Prof. Applied Mechanics, Univ. of Rochester.
- Hogle, Milton W., Hopeman Bros. Lumber & Mfg. Co., 569 Lyell Ave.
- Jones, Albert I., Supt., The Pfaudler Co., 217 Cutler Bldg.
- Knowlton, Frederic K. (Junior), V. P., M. D. Knowlton Co., and V. P., Auburn Ball Bearing Co.
- Lovejoy, Frank Wm. (Junior), Genl. Mgr. Mfg. Depts., Eastman Kodak Co.
- Lundgaard, Ivar (Junior), Industrial Engr., Rochester Ry. & Light Co., 34 Clinton Ave., N.
- Noyes, Henry Taylor, Treas., German-Am. Button Co.
- Palmer, Virgil Maro (Junior), Purchasing Engr., Eastman Kodak Co.
- Parker, John Castlereagh, Mech. and Elec. Engr., Rochester Ry. & Light Co.
- Price, Melvin, Asst. Prof. Mch. Design, Univ. of Rochester.
- Richardson, Levi S., Engr., Rochester Vacuum Valve Co., 522 Granite Bldg.
- Saegmuller, George Nicholas, Mech. Engr., Mfr., V. P., Bausch & Lomb Optical Co.
- Sponsler, Charles Frederick, Mech. Engr., Eastman Kodak Co.
- Svensson, Johan Alfred, Mech. Engr., Ingle Mch. Co., 375 St. Paul St.
- Wilcox, Perley Smith (Junior), Asst. Mgr., Kodak Park Wks., Eastman Kodak Co.
- Wishart, William Donaldson, M. M., Bausch & Lomb Optical Co., 635 St. Paul St.
- Rockville Center.**—Bonner, Richard Oliver (Junior), Genl. Mgr., Bonner Development Corp.
- Sacketts Harbor.**—Rankin, Thos. L.
- Saugerties.**—Van Voorhis, Frederick Springer (Junior), Mech. Engr., Diamond Mills Paper Co.
- Scarsdale.**—Muhlfeld, John E., Sherbrooke Rd.
- Schenectady.**—Batchelder, Asa Fred, Engr. Ry. Loco. Dept., Genl. Elec. Co.
- Berg, Ernst Julius, Prof. Elec. Engrg., Union Univ.
- Brooks, Louis C. (Junior), Elec. Engr. Industrial Control Dept., Genl. Elec. Co.
- Capp, John Allen, Chief of Test Lab., Genl. Elec. Co.
- Clark, John Henry, 18 Ardsley Rd.
- Clarke, Charles L., Cons. Engrg. Dept., Genl. Elec. Co.
- Cole, Francis J., Ch. Cons. Engr., Am. Loco. Co.

NEW YORK, Schenectady (Continued).

- Cross, Garrett Putnam S., Designing Draftsman, Genl. Elec. Co.
 Dalton, William, Ch. Engr., Am. Loco. Co.
 Dickinson, Edgar Drury, Asst. Engr. Steam Turbines, Genl. Elec. Co.
 Dodge, Austin R., Engr., Genl. Elec. Co.
 Ely, Wm. Grosvenor, Supt. Constr., Genl. Elec. Co.
 Emmet, W. L. R., Cons. Engr., Genl. Elec. Co.
 Fair, Charles, Engr. Power and Min. Engrg. Dept., Genl. Elec. Co.
 Farquhar, Edmund Henry, Supt., Genl. Elec. Co.
 Fonda, Burton Cole (Junior), Student Engr., Genl. Elec. Co.
 Gilbert, E. E., Sales Mgr. Turbine Dept., Genl. Elec. Co.
 Heisler, Charles L., 325 Glenwood Blvd.
 Hewlett, Edward M., Engr. of Switchboard Dept., Genl. Elec. Co.
 Hill, Charles Hubbard, Designing Engr., Genl. Elec. Co.
 Johnson, Lester Gurney, Commercial Engr., Genl. Elec. Co.
 Junggren, Oscar F., Engr. Turbine Dept., Genl. Elec. Co.
 Knapp, Edwin C. (Junior), 180 Furman St.
 Knight, Charles Donaldson, Elec. Engr., Ch. Engr. Industrial Control Dept., Genl. Elec. Co.
 Kruesi, August H., Engr. of Constr., Genl. Elec. Co.
 Landreth, Olin H., Prof. Engrg., Union College, and Cons. Engr.
 Lane, Arthur M., Asst. Engr., Genl. Drawing Rm., Am. Loco. Co.
 Lower, Nathan M., Mech. Engr., Loco. Stoker Co.
 Mann, A. S., Mech. Engr., Genl. Elec. Co.
 Mellin, Carl J., Cons. Engr., Am. Loco. Co.
 Moore, Allen H., Genl. Elec. Co.; also, Albany.
 Mortensen, Casper (Junior), Designer Mch. Tool Dept., Genl. Elec. Co.
 Norris, William H., Jr. (Junior), Commercial Engr. Ltg. Dept., Genl. Elec. Co.
 Osborne, L. Edward, Ch. Draftsman, Loco. Stoker Co.
 Peck, Henry W., V. P. and Genl. Mgr., Schenectady Ill. Co., and Mohawk Gas Co.
 Potter, Wm. Bancroft, Engr. Ry. and Traction Dept., Genl. Elec. Co.
 Pratt, Francis C., Asst. to Pres., Genl. Elec. Co.
 Reid, Wm. L., Genl. Wks. Mgr., Am. Loco. Co.
 Reist, H. G., Mech. and Elec. Engr., Genl. Elec. Co.
 Riddell, John, Mech. Supt., Genl. Elec. Co., Schenectady Wks.
 Rohrer, Albert L., Elec. Supt., Genl. Elec. Co.
 Rushmore, David Barker, Ch. Engr. Power and Min. Dept., Genl. Elec. Co.
 Scudder, Hewlett, Jr. (Junior), Pat. Dept., Genl. Elec. Co.
 Sheldon, Lucian Ambler, Engr., Genl. Elec. Co.
 Shirrell, David, Am. Loco. Co.
 Smith, James Argyle, Genl. Supt., Genl. Elec. Co.
 Spalding, Chester M., Genl. Elec. Co.
 Steinmetz, Charles P., Cons. Engr., Genl. Elec. Co., and Prof. Elec. Engrg., Union Univ.
 Stone, Charles Waterman, Cons. Engr., Genl. Elec. Co.
 Torrance, Kenneth, Mech. Engr., Genl. Elec. Co.

NEW YORK, Schenectady (Continued).

Turner, Charles P., Constr. Foreman, Constr. Dept., Genl. Elec. Co.

Upp, John W., Mgr., Switchboard Dept., Genl. Elec. Co.

Williams, Ernest D. (Junior), Turbine Eng. Dept., Genl. Elec. Co.

Yorkston, John Edward, Engr. in Charge Drafting Dept., Genl. Elec. Co.

Seneca Falls.—Gould, Norman J., Pres., Goulds Mfg. Co.

Nedden, F. zur, Cons. Engr., 81 Cayuga St.

Payson, T. Elliott, Genl. Supt., The Seneca Falls Mfg. Co.

Pomeroy, William D., Genl. Supt., Goulds Mfg. Co.

Shenberger, Geo. H. (Junior), Goulds Mfg. Co.

Southfields.—Hall, Dwight Kimball (Junior), Asst. Supt., Frank A. Hall & Sons.**Spuyten Duyvil (New York City).**—Morat, Jacques.**Syracuse.**—Acheson, Albert Robert, Prof. Mech. Engrg., Syracuse Univ.

Ahlqvist, Harald, Asst. Mgr. B. C. Dept., Solvay Process Co.

Barnes, E. Austin, Mech. Engr., Semet-Solvay Co.

Bates, Edward P., Prin., 228 W. Water St.

Blauvelt, Wm. Hutton, Cons. Engr., Semet-Solvay Co.

Brand, George B., Supt., Monarch Typewriter Wks., Remington Typewriter Co., 435 N. Franklin St.

Brand, Walter N., Supt., Smith Premier Wks.

Briggs, Arthur J., Mech. Engr., Smith Premier Typewriter Co.

Brown, Alex. T., Pres., Smith Premier Typewriter Co., Brown-Lipe Gear Co., Pres., Brown-Lipe-Chapin Co.

Brown, William Clinton, Ch. Engr., Humphrey Gas Pump Co., S. A. and K. Bldg.

Bump, Burton Nelson, Engr. of Tests, Solvay Process Co.

Carhart, Herbert A., Designer, Smith Premier Wks.

Caris, Ivan Burdell, Semet-Solvay Co.

Chambers, F. G., Supt., Straight Line Eng. Co.

Cogswell, Wm. B., V. P. and Managing Dir., The Solvay Process Co.

Comly, G. Norwood, Soda Ash Dept., Solvay Process Co.

Comly, Geo. N., 1816 W. Genesee St.

Cooper, Henry R., Solvay Process Co.

Cotton, Geo. G., Supt. of Constr., Solvay Process Co.

Craig, Howard Benton (Junior), Solvay Process Co.

Diefendorf, William H., Ch. Engr., New Process Gear Corp.

Dunkle, H. Edw., Draftsman, Semet-Solvay Co.

Flannery, John M., Solvay Process Co.

Fryer, Geo. G., Cons. Engr., 203 Onandaga Ave.

Gillis, Albert R., 307 Emerson Ave.

Gordon, Rea M., Asst. Engr. of Tests, Solvay Process Co.

Griffin, Charles Lewis, Asst. Engr., The Solvay Process Co.

Guelbaum, David, Mech. Engr., P. O. Box 293.

Hager, Edward C., Engr. in Charge of Power Plants, The Solvay Process Co.

Herbert, Charles G., Acting Ch. Engr., The Solvay Process Co.

Holmes, Arthur (Junior), Engr., H. H. Franklin Mfg. Co.

Hopton, W. E., Pur. Dept., Solvay Process Co.

King, Eugene Whittaker, Mech. Engr., Semet-Solvay Co.

Klock, Frank Barnes, Solvay Process Co.

Land, Frank, Genl. Mgr., Dyneto Elec. Co., 308 W. Jefferson St.

NEW YORK, Syracuse (Continued).

- Lape, Willard E., Contr. Engr., 626 University Bldg.
 McFarland, A. R., Wks. Mgr., Solvay Process Co.
 MacCorquodale, Peter H., Asst. Supt., Church & Dwight Co.,
 1416 Willis Ave.
 Mack, George J. (Junior), Mgr., Mack Bros. Steam Boiler
 Wks., 405 Marcellus St.
 Mallory, Charles K., Engr. of Constr. and Maintenance, The
 Solvay Process Co.
 Mathews, John Alexander, Genl. Mgr., Halcomb Steel Co.
 Merrell, Irving Seaward, V. P. and Mech. Engr., Merrell-Soule
 Co.
 Miller, Thomas Harrison (Junior), Ch. Draftsman, Semet-Solvay
 Co.
 Montague, Charles Eugene (Junior), Mech. Engr. and De-
 signer, The Engelberg Huller Co., 831 W. Fayette St.
 Murphy, Ralph, Mgr. Service Dept., Franklin Auto. Co.
 Ninde, William Edward, Assoc. Prof. Mech. Engrg., Syracuse
 Univ.
 Page, Charles E., 316 Westcott St.
 Pierce, Edward L., V. P., Semet-Solvay Co., V. P., By-Products
 Coke Corp., Box 1 and 2.
 Pillmore, Frederick, Mech. Engr., 257 Bryant Ave.
 Pomeroy, Harry D., Continental Can Co.
 Singer, Sidney Chas. (Junior), Supt. of Distribution, Syracuse
 Ltg. Co.
 Smallwood, Julian Chase, Assoc. Prof. Exper. Engrg., Syra-
 cuse Univ.
 Sweet, John E., Pres., Straight Line Eng. Co.
 Thompson, Byron Lyman, Asst. Mgr. Caustic Soda Dept., Sol-
 vay Process Co.
 Tracy, Lyndon Sanford (Junior), Mgr. Soda Ash Dept., Solvay
 Process Co.
 Trump, Edward N., V. P. and Tech. Dir., Solvay Process Co.,
 V. P., Semet-Solvay Co.
 Wilkinson, John, Mech. Engr., H. H. Franklin Mfg. Co.
 Zohe, Ludwig A., Solvay Process Co.

Tannersville.—Godfrey, Eli S.**Tarrytown.**—Parsons, Frederick W., Supt., Rand Drill Co.**Tompkinsville, S. I. (New York City).**—Buckler, Albert H. (Jun-
 ior), care of Insp., Third Light House Dist.

Reeve, Sidney A., Cons. Engr., 20 Central Ave.

Troy.—Bagg, Samuel F., Dist. Agt., The Fidelity & Casualty Co.,
 Burdett Bldg.

Bradley, Wm. Joseph, Supt., Rail Joint Co.

Caldwell, James Henry, Pres., Genl. Mgr. and Engr., The Lud-
 low Valve Mfg. Co.

Cluett, Albert Edmund, Mech. Engr., Cluett, Peabody & Co.

Foster, C. H., Treas., Tolhurst Mch. Wks.

Green, Arthur M., Jr., Prof. Mech. Engrg., Rensselaer Poly.
 Inst.

Hammett, Hiram G., Hammett Mch. Wks., 476-482 Eighth St.

Klotz, Harry John (Junior), Asst. in Mech. Engrg., Rensse-
 laer Poly. Inst.Moody, Lewis F., Prof. Hyd. Engrg., Rensselaer Poly. Inst.,
 and Cons. Engr. Hyd. Dept., I. P. Morris Co. of Philadel-
 phia, Pa.

NEW YORK, Troy (Continued).

Palsgrove, Grant K. (Junior), Asst. in Mech. Engrg., Rensselaer Poly. Inst.

Rickcord, Reginald Victor G. (Junior), Cluett, Peabody & Co., Inc.

Ricketts, Palmer Chamberlaine, Pres. and Prof. Mechanics, Rensselaer Poly. Inst.

Streeter, Robert Leroy, Asst. Prof. Mech. Engrg., Rensselaer Poly. Inst.

Van Dervort, Adrian O. (Junior), Supt., Hammett Mch. Wks.

Utica.—Babcock, Stephen E., Mech. and Civ. Engr., 55 Mann Bldg.

Camp, Geo. E., Supt., Foster Bros. Mfg. Co.

Foster, William B., V. P. and Ch. Engr., Foster Bros. Mfg. Co.

Heisler, F. Wm., Supt., Divine Tire Co., 136 Broad St.

Hosmer, Amos G., Mech. Supt., Utica Knitting Co.

Kellemen, H. F., Genl. Mgr., Utica Drop Forge & Tool Co., 2800 Whitesboro St.

Munson, Edmund G., Supt. and Secy., Munson Bros. Co.

Warsaw.—Pettengill, George D. (Junior), Ch. Draftsman, Warsaw Elev. Co.

Washingtonville.—Howells, Charles, Box 164.

Waterford.—Knickerbacker, John, Pres., Eddy Valve Co.

Watertown.—Eaton, Charles Edwin, Eaton & Brownell, Smith Bldg.

Halladay, Harry F., Asst. Ch. Engr., N. Y. Air Brake Co.

Kinne, Clarence E., Mech. Engr., Bagley & Sewall Co.

Ormston, Alfred J., Jr. (Junior), Mech. Engr., Massey Mch. Co.

Watervliet.—Ehrmann, John P. (Junior), Collins House.

Wellsville.—Clark, Charles Ethan, Mfg. Saw Mill Mch., Steam and Gas Engs., 406 N. Main St.

Clark, Charles Paul (Junior), Clark & Norton Mfg. Co.

McEwen, J. H., Pres. and Genl. Mgr., McEwen Bros., and Pres. and Genl. Mgr., McEwen Mfg. Co., Tulsa, Okla.

Moore, James Leonard, Ch. Engr. and Factory Mgr., Kerr Turbine Co.

Schaller, Alwin Louis (Junior), Supt., McEwen Bros.

West New Brighton, S. I. (New York City).—Gfrörer, Albert H. (Junior), Storage Battery Truck Engr., C. W. Hunt Co., Inc., Box 145.

Jones, William Anthony, Mech. Engr., Babcock & Wilcox Co.

Lee, Wm. F., Ch. Engr., C. W. Hunt Co.

Yonkers.—Buckley, John H., Mech. Engr., Otis Elev. Co.

Bunker, Raymond U. (Junior), Mech. Engr., The Natl. Sugar Refining Co. of N. J.

Cunningham, Charles G., Engr., N. Y. C. & H. R. R. R. Co., Yonkers Power Sta.

Davis, Joseph P., 332 Palisade Ave.

Freeman, J. Porter, Constr. Engr., Alex. Smith & Sons.

Morse, William A., Wks. Mech. Engr., Otis Elec. Co., Wells and Woodworth Ave.

Odell, W. H., Mech. Engr., Spec. Economic Generation and Application of Steam.

Roth, Adolph (Junior), Mech. Draftsman, Otis Elev. Co.

Skinner, Halcyon Nathaniel (Junior), Mech. Dept., Alex. Smith & Sons Carpet Co.

NORTH CAROLINA

- Asheville.**—Waddell, Chas. Edward, Cons. Engr., 78 Patton Ave.
Charlotte.—Burkholder, Charles Irvine, Genl. Mgr., So. Power Co.
 Klink, J. Henry, Mgr. I. and P. Div., Westinghouse Elec. & Mfg. Co., 306 American Bldg.
 Lee, William States, Ch. Engr., So. Power Co., Trust Bldg.
 Mees, Curtis A., Designing Engr., So. Power Co.
 Rucker, B. Parks, Cons. Engr., Commercial Bank Bldg.
 Tucker, Frank S., Genl. Mgr., Spencer Mt. Stone & Brick Co.
 Whitted, Col. Thomas B., Mech. Engr., Realty Bldg.
Goldsboro.—Borden, Wm. H. (Junior).
Hickory.—Reynolds, Scott (Junior), Salesman and Engr., Latta-Martin Pump Co.
North Charlotte.—McKee, Jno. F. (Junior), Mech. Engr., Genl. Fire Extinguisher Co.
Pinchurst.—Tufts, Leonard, Owner of Pinehurst, N. C.
Raleigh.—Andrews, Wm. Johnston (Junior), Mech. Engr., 105 E. North St.
Salisbury.—Henderson, Richard, Capt., U. S. N., Ret., P. O. Box 285.
West Raleigh.—Ellis, Weldon T., Asst. Prof. Mech. Engrg., N. C. College of Agri. and Mech. Arts.
 Satterfield, Howard E., Prof. Mech. Engrg., N. C. College of Agri. and Mech. Arts.

NORTH DAKOTA

- Ellendale.**—King, Roy Stevenson.
Grand Forks.—Becker, Albert John, Prof. Applied Mathematics, Univ. of N. D.
 Crouch, Calvin H., Dean College of Mech. and Elec. Engrg., Univ. of N. D.

OHIO

- Akron.**—Adamson, Cecil F. (Junior), Cons. Engr., 318 Hamilton Bldg.
 Bennett, Thomas Archibald (Junior), Dept. Sales Mgr., The B. F. Goodrich Co.
 Bidwell, Carlyle D., Mech. Engr., Internatl. Harvester Corp.
 Bond, Francis M. (Junior), Foreman Loco. Dept., Baltimore & Ohio R. R. Co., Akron Junction.
 Ericson, Edward Oscar (Junior), Engr. Eng. Dept., Firestone Tire & Rubber Co.; also, Helmetta, N. J.
 Grant, Charles C. (Junior), Asst. Mech. Engr., The Goodyear Tire & Rubber Co.
 Preston, Ralph A. D. (Junior), Exper. Dept., The Goodyear Tire & Rubber Co.
 Riggs, F. Stanley (Junior), Exper. Dept., Goodyear Tire & Rubber Co.
 Roe, Mark W., Mech. Engr., Diamond Rubber Co.
 Shaw, E. C., Second V. P. and Wks. Mgr., The B. F. Goodrich Co.
 Shelton, William Arnold (Junior), The Goodyear Tire & Rubber Co.
Alliance.—Taylor, Clarence L., Ch. Engr., Morgan Engrg. Co.

OHIO (Continued).

- Barberton.**—Langvand, I. L., Ch. Draftsman, The Babcock & Wilcox Co.
 Sadler, Cornelius Robinson, Asst. Supt., The Babcock & Wilcox Co.
 Smith, William Earhart (Junior), Draftsman, The Babcock & Wilcox Co.
 Treat, Sidney Wellington (Junior), Foreman Mch. Shop, The Babcock & Wilcox Co.
- Canton.**—Harris, Wm. Allison, Mgr., Am. Sheet & Tin Plate Co., Roll and Mch. Wks.
 Lothrop, Marcus T. (Junior), Timken Roller Bearing Co.
- Cincinnati.**—Ahrens, Geo. Fred, Pres. and Treas., The Ahrens Iron Wks. Co., 3323-3337 Colerain Ave.
 Allison, Daniel K., Ch. Draftsman and Mch. Designer, The J. H. Day Co., 1144 Harrison Ave.
 Aull, Jerome J., Mech. Engr., Lunkenheimer Co.
 Baker, Arthur Josiah, Cincinnati Milling Mch. Co.
 Baldwin, Bert L., Mech. Engr., 72-75 Perin Bldg.
 Brosius, Frank R., Supt. of Power, Union Gas & Elec. Co.
 Brown, Robert Garfield, Instr. Mech. Engrg., Univ. of Cincinnati.
 Cockburn, Francis B., Ch. Draftsman, Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave.
 De Leeuw, Adolph L., Mech. Engr., Cincinnati Milling Mch. Co.
 Diserens, Paul (Junior), Engr. of Tests, Laidlaw-Dunn-Gordon Co.
 Du Brul, Ernest F., Pres., Pyro Clay Products Co., 507 E. Pearl St.
 Du Brul, Napoleon, Pres., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St.
 Egan, Thomas P., Pres., J. A. Fay & Egan Co.
 Einstein, Sol., Ch. Designer, Cincinnati Milling Mch. Co., Oakley.
 Elliott, Thomas, Ch. Engr., 1312 Traction Bldg.
 Faig, John T., Prof. Mech. Engrg., Univ. of Cincinnati.
 Fox, Charles H., Pres., Ahrens-Fox Fire Eng. Co., Alfred and Cook Sts.
 Franz, Walter G., Cons. Engr., Union Trust Bldg.
 Galbraith, Geo. W., Sales Mgr., Internatl. Steam Pump Co., 1504 First Natl. Bank Bldg., and P. O. Box 639.
 Geier, Frederick August, Pres., The Cincinnati Milling Mch. Co., Oakley.
 Gingrich, Charles Sumner (Junior), The Cincinnati Milling Mch. Co.
 Goldsmith, Nathaniel Oliver, Genl. Mgr., Weir Frog Co., East Norwood.
 Greenman, Edwin G., Engr. Charge Drafting Dept., The Lunkenheimer Co.
 Groene, William F., Ch. Draftsman and Designer, R. K. LeBlond Mch. Tool Co., 4609-4621 Eastern Ave.
 Hall, Arthur Goodwin, Ch. Smoke Insp., City of Cincinnati.
 Hazelton, Robert T. (Junior), Cincinnati Milling Mch. Co.
 Hobart, James C., Pres. and Mgr., Triumph Elec. & Ice Mch. Co.
 Hughes, Burton Shelley, Cons. Engr., 1014 Commercial Tribune Bldg.

OHIO, Cincinnati (Continued).

- Jenkins, Alexander Lewis, Assoc. Prof. Mech. Engrg., Univ. of Cincinnati.
- Kemble, Parker H., Mgr. Commercial Dept., Union Gas & Elec. Co.
- Lane, Harry M., Pres., Lane & Bodley Co., Bond Hill.
- Langen, George, Wks. Mgr., Cincinnati Planer Co.
- LeBlond, John A., Supt., R. K. LeBlond Mch. Tool Co.
- LeBlond, Richard K., Pres., R. K. LeBlond Mch. Tool Co., 4609 Eastern Ave.
- Leeper, Ralph W. (Junior), Genl. Elec. Co., Provident Bank Bldg.
- Lehman, Edward H. (Junior), Mech. Draftsman, The Lunkenheimer Co.
- Lemon, John C., Mech. Engr., 2844 Linwood Ave.
- Lodge, Wm., Pres., Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave.
- Luhn, Clarence W. (Junior), Teacher of Manual Training, Hughes High Sch.
- Lyon, Jesse D., Engr., 2216 Union Central Bldg.
- Marx, August (Junior), Sales Mgr., The G. A. Gray Co., Depot and Gest Sts.
- Marx, Henry, Pres., The G. A. Gray Co., Gest and Depot Sts.
- Morris, Thomas Bray (Junior), Mech. Engr., E. K. Morris Co.
- Morrison, William (Junior), Pres., Charge of Sales, The Highland Body Mfg. Co., Elmwood Pl.
- Morse, Arthur Holmes, Mech. Engr. and Asst. Supt., The Baldwin Co.
- Muller, Edward A., Secy. and Mgr., King Mch. Tool Co., Winton Pl.
- Myers, Curtis Clark (Junior), Prof. in Charge of Coördination, Univ. of Cincinnati.
- Norris, Henry McCoy, Mech. Engr., The Cincinnati Bickford Tool Co., Oakley.
- Perkins, L. Arthur (Junior), U. S. Cast Iron Pipe & Fdy. Co., Addyston.
- Pierle, Henry Charles, Spec. Rep. and Engr., The R. K. LeBlond Mch. Tool Co.
- Pollard, Seabury G., Cons. Engr., Pollard & Ellms, Hyd. and Sanitary Engrs., 2806-2807 Union Central Bldg.
- Ransohoff, Nathan (Junior), Genl. Supt., Ideal Concrete Mchy. Co., Monmouth St., near Colerain.
- Richter, Ernst, Mech. Engr., The G. A. Gray Co.
- Ritter, Elmer Ralph (Junior), Asst. Mech. Engr., The Lunkenheimer Co., Box 876.
- Ritter, Henry, Supt., The Lunkenheimer Co.
- Robinson, Louis G., Louis G. Robinson Lab., Metallurgy and Ceramics, Harrison Bldg.; also, Newport, Ky.
- Simpkinson, Garrett W., Member of Firm, Bert L. Baldwin & Co., 73 Perin Bldg.
- Springer, John J. (Junior), Sales Engr., Crane Hawley Co., Court and Sycamore Sts.
- Stanwood, J. B., Engr. and V. P., Houston, Stanwood & Gamble Co.
- Stewart, Harry Morton (Junior), Mchy. Rep., The Samuel C. Tatum Co., Colerain and Monmouth Aves.
- Stone, Edison H. (Junior), Draftsman, The Lunkenheimer Co.
- Swanberg, F. L. (Junior), Secy., D. T. Williams Valve Co.

OHIO, Cincinnati (Continued).

- Van Winkle, Herbert H. (Junior), Mech. Engr., John H. McGowan Co., 54 Central Ave.
- Viall, Ethan, West. Editor, American Machinist, 3556 Monticeth Ave., Hyde Park.
- Wadsworth, R. Hollis, Asst. Supt., The Ptg. Mch. Co., 3d and Lock Sts.
- Wood, Henry M., Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave.
- Cleveland.**—Allen, Albert Mark, Cons. Engr., 1900 Euclid Ave.
- Anderson, Harold Bentley, Ch. Engr., The Winton Motor Carriage Co.
- Arnold, George, Jr., Cleveland Frog & Crossing Co.
- Bailliere, Marlon Valentine (Junior), Asst. Engr., Lake Shore & Mich. So. Ry. Co.
- Balkwill, Stephen, Mech. Engr., Cleveland Frog & Crossing Co.
- Ballard, Frederick W., Engr. of Constr., City of Cleveland Municipal Elec. Light Plant, 319 City Hall.
- Bartol, Geo., Pres., The Otis Steel Co.
- Bates, Albert H., Pat. Lawyer, 1028 Society for Savings Bldg.
- Batten, Percy H., Wks. Mgr., Wallis Tractor Co., 844 E. 72d St.
- Baxter, Burke Morgan (Junior), Mech. Engr. with H. B. Prather, 662 Rockefeller Bldg.
- Bechtel, August L. (Junior), Mech. Engr., The Cleveland Punch & Shear Wks. Co.
- Bidle, William Sanford, Pres. and Treas., The W. S. Bidle Co., 1411 E. 45th St.
- Brennan, John T., Mech. Engr., Corrigan & McKinney Co., Perry Payne Bldg.
- Brown, Will H., Mfr., Rose Bldg.
- Brown, Willard, Ch. Engr. Blast Furnace and Steel Wks., Upson Nut Co.
- Browning, Victor Reed, Victor R. Browning & Co.
- Brush, Charles F., Elec. Engr., 481 The Arcade.
- Cairns, William, Genl. Mgr., The Parish & Bingham Co.
- Carpenter, Alfonso H., care of Estates Dept., The Cleveland Trust Co.
- Carson, Whitfield Robert, Engr., The Grasselli Chem. Co.
- Chace, William W., Mech. Engr., Cleveland Twist Drill Co.
- Cheney, W. L., Sales Mgr., Lucas Mch. Tool Co.
- Church, Maynard D., Ch. Engr., Dayton Turbine Pump Co., 605 Am. Trust Bldg.
- Clark, William Chas. M., Mech. Htg. and Ventilating Engr., J. Milton Dyer, Arch., 825 Cuyahoga Bldg.
- Clegg, Robert Ingham, Managing Editor, Blast Furnace and Steel Plant, Automobile Builder, Wood Craft, and Castings, V. P., Gardner Ptg Co., Caxton Bldg.
- Comstock, Charles Warren, Ins., 910 Leader-News Bldg.
- Cox, Jacob Dolson, Pres., Cleveland Twist Drill Co., cor Lakeside Ave. and E. 49th St.
- Cromwell, J. C., 1410 New England Bldg.
- Cunningham, Robert Henry, Jr. (Junior), Engr., Salesman, Ingersoll-Rand Co., 1620 Williamson Bldg.
- Day, Charles Harold, Engr., The Grasselli Chem. Co.
- Dornbirer, James G., Genl. Mgr., Cleveland Planer Wks.
- Dunbar, James Horace, Mech. Engr., Grasselli Chem. Co.

OHIO, Cleveland (Continued).

- Einig, Alvin Bart (Junior), The Motch & Merryweather Mchy. Co.
- Feiss, Richard Albert, Genl. Mgr., The Joseph & Feiss Co., 2149 W. 53d St.
- Field, Freeman, Pres., The Field-Olds Co., 1618 Walnut Ave.
- Foote, Andrew W., Pres., Foote Burt Co., 4100-4109 St. Clair St.
- Fuller, Benjamin Delano, Supt. of Foundries, Westinghouse Elec. & Mfg. Co., Cleveland and Allegheny City Wks., Box 382.
- Gaehr, David, Designing and Contr. Engr., 950-952 Rockefeller Bldg.
- Gammeter, Harry Christian, Mech. Expt., The Am. Multi-graph Co.
- Giele, Herman Frederick, Supt. of Fdy., The Grabler Mfg. Co.
- Green, James B., Ch. Draftsman, Lucas Mch. Tool Co.
- Griess, Justin, Jr., Second V. P., The McMyler Interstate Co.
- Haas, Lucian L. (Junior), Head Tool Designer, The Peerless Motor Car Co.
- Hale, Herbert Carlton, Dist. Mgr., Rldgway Dynamo & Eng. Co., 1405 Schofield Bldg.
- Harrison, Henry Thomas, Ch. Engr., Corrigan, McKinney & Co.
- Henn, Edwin C., V. P. and Genl. Supt., The Natl-Acme Mfg. Co.
- Henn, Oliver L. (Junior), Asst. to Supt., The Natl-Acme Mfg. Co.
- Herron, James H., Cons. Metallurgical Engr., 2041 E. 3d St.
- Hill, Harold H., Mech. Engr., Dist. Mgr., Erie City Iron Wks., 807 New England Bldg.
- Hinchman, C. R., Engr., Am. Steel & Wire Co.
- Honsberg, August A., Mech. Engr., Ret., 7202 Broadway.
- Hopkins, Arthur T., Asst. Genl. Mgr., Mech. Rubber Co.
- Horton, William M., Jr. (Junior), Asst. Supt., The Kirk Latty Mfg. Co.
- Hulett, Frank E., Engr., Wellman-Seaver-Morgan Co.
- Hulett, Geo. Henry, V. P., Wellman-Seaver-Morgan Co.
- Jones, Edward H.; also Clearwater, Fla.
- Keller, J. M., Ch. Engr., The Otis Steel Co.
- Kenner, Ernest Rodham (Junior), Sales Engr., Allis-Chalmers Mfg. Co., 1121 Schofield Bldg.
- Larner, Chester W., Hyd. Engr., Wellman-Seaver-Morgan Co.
- Lees, Ernest J., Pres., The Lees-Bradner Co., 6210 Carnegie Ave.
- Leighton, Edward I., 1183 East Blvd.; also, St. Augustine, Fla.
- Little, Chas. Henry, Mgr., Universal Drafting Mch. Co.
- Lucas, Henry M., Lucas Mch. Tool Co., E. 99th St. and L. S. & M. S. R. R.
- McKechnie, Robert R., Mech. Engr., The Variety Iron & Steel Wks. Co.
- McKee, Arthur Glenn, Cons. and Contr. Engr., 1303 Rockefeller Bldg.
- McNairy, Amos B., Mfr., Hickox Bldg.
- Maltby, Geo. Beecher, Genl. Mgr., The Geo. B. Maltby Co., 719-721 St. Clair Ave., N. E.
- Matthews, John G., Instr. Mech. Drawing, East Tech. H. S.
- Merryweather, Geo. Edmund, Pres., Motch & Merryweather Mchy. Co., 707-715 Lakeside Ave., N. W.

OHIO, Cleveland (Continued).

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- Misch, Arthur Albert (Junior), Engr., Brown Hoisting Mchy. Co.
- Moeller, Franklin, Mech. Engr., Power and Min. Dept., Wellman-Seaver-Morgan Co.
- Morrison, Hunter (Junior), Sales Mgr., Hill Clutch Co.
- Murray, Geo. R., Pres., The Euclid Stone & Brick Co., 914 Williamson Bldg.
- Nagy, Béla, Industrial Engr. Natl. Lamp Div., Genl. Elec. Co., Nela Park.
- Nesbit, Edwin, Zinc Engr., Grasselli Chem. Co.
- Olivenbaum, John Emmanuel, Radiographer and Asst. Supt., Lakeside Hospital.
- Palmer, Arthur E. (Junior), Sales Engr., L. G. Finlay & Co., 710 N. E. Bldg.
- Peck, Eugene C., Genl. Supt., Cleveland Twist Drill Co.
- Pitkin, Stephen H., First V. P., Wellman-Seaver-Morgan Co.
- Plantinga, Pierre (Junior), Pres., Gas Mchy. Co., 1900 Euclid Ave.
- Pope, Chas. Edwd., Mech. Engr., Natl. Malleable Castings Co.
- Prather, H. B., Cons. Mech. and Efficiency Engr., 662 Rockefeller Bldg.
- Randles, George E., V. P., in Charge of Mfg. and Sales, The Foote-Burt Co.
- Reid, Marcellus, Mech. and Cons. Engr., 506 Caxton Bldg.
- Rider, Geo. Smith, Cons. Engr., Geo. S. Rider & Co., Century Bldg.
- Roberts, A. L., Designing Engr., Brown Hoisting Mchy. Co.
- Roberts, E. P., Cons. Engr. and Ch. City Smoke Inspr., 1123 Schofield Bldg.
- Rodgers, Horace Philip (Junior), Mech. Engr., 2099 E. 71st St.
- Ruble, Joseph Shirk, Samuel Austin & Son Co.
- Ruetenik, B. P. (Junior), Power Engr., Cleveland Ill. Co., 624 Engineers Bldg.
- Rusbatch, Alfred, Supt., Rod Mills, 1786 E. 89th St.
- Rust, William F., Genl. Supt., The Otis Steel Co.
- Sague, Samuel Reston (Junior), Sales Engr. Power House Equip., Strong, Carlisle & Hammond Co.
- Sessions, Frank Lord, 1423 Cohasset Ave.
- Seymour, Niles Edward (Junior), Instr. Mech. Drawing, East Tech. High Sch.
- Sheridan, Richard B., Genl. Mgr., The Brown Hoisting Mchy. Co.
- Smead, William H., Mgr. Htg. and Equip. Dept., The Samuel Austin & Son Co., 6408 Euclid Ave.
- Smith, Harry J., Wks. Mgr. and Ch. Engr., Hill Clutch Co.
- Smith, Roy Harman (Junior), Supt. Natl. Screw & Tack Co.
- Stratton, Harry F. (Junior), Genl. Mgr. and Ch. Engr., The Elec. Controller & Mfg. Co.
- Stratton, James Hughes, Engr. of Constr., Wellman-Seaver-Morgan Co., E. 70th St. and Central Ave.
- Stroud, Edwin G. (Junior), Mgr., Cleveland Engrg. Agency, Pres., E. G. Stroud Co., Rose Bldg.
- Swasey, Ambrose, Pres., The Warner & Swasey Co.
- Sweetser, William Jordan, Asst. Prof. Mech. Engrg., Case Sch. of Applied Science.

OHIO, Cleveland (Continued).

- Thiemer, William H., M. M., Winton Motor Car Co., Berea Rd.
 Valentine, Floyd Herbert (Junior), Constr. Engr., Steam Dept.,
 Cleveland Elec. Ill. Co.; also, Lansing, Mich.
 Vose, Fred Hale, Assoc. Prof. Mech. Engrg. in Charge of Dept.,
 Case Sch. of Applied Science.
 Warner, Worcester R., V. P., Warner & Swasey Co.; also Sing-
 er Bldg., 149 Broadway, New York, N. Y.
 Welch, Leon Cowles, Supt. Cygnet Div., The Buckeye Pipe
 Line Co., 609 Rockefeller Bldg.
 Wellman, Samuel T., Chairman, Wellman-Seaver-Morgan Co.
 West, Thos. D., Iron Fdy. Expt., Chairman and Managing Dir.,
 The West Steel Casting Co., E. 70th St.
 Whitlock, Elliott H., Factory Mgr., Natl. Carbon Co.
 Wilson, Henry M., Dist. Agt., Pittsburgh Valve, Fdy. & Constr.
 Co., 978 Rockefeller Bldg.
 Winton, Alexander, Pres., Winton Motor Car Co.
 Wright, Reginald A., Ch. Draftsman Hyd. Dept., Wellman-
 Seaver-Morgan Co.

- Columbus.**—Agner, Owen B. (Junior), Engr., E. W. Clark & Co.
 Management Corp., 909 Wyandotte Bldg.; also, Mgr. of
 Sales, Chattanooga Ry. & Light Co., Chattanooga, Tenn.
 Andrix, Earl Russell (Junior), Asst. Supt. of Power, Columbus
 Ry. & Light Co., Spring St. Power Sta.
 Armstrong, Walter J. (Junior), Mech. Engr., Jeffrey Mfg. Co.
 Babbitt, Edward F., Engr. with F. L. Packard.
 Bailey, Hazil Harding (Junior), Constr. Engr., E. W. Clark &
 Co., 910 Wyandotte Bldg.; also, Alton, Ill.
 Banks, Thomas Dent (Junior), Supt., Municipal Reduction
 Plant.
 Beckwith, Henry Clay, Hotel Vendome.
 Bone, Wm. H., V. P. and Genl. Mgr., The Ironsides Co.
 Bush, Harold Montfort, Cons. Engr., 136 E. Gay St.
 Cole, J. Wendell, Dist. Mgr., William Sellers & Co.'s Tool and
 Drill Grinders, and Detroit Emery Wheel Co., P. O. Box 84.
 Craiglow, Harry H. (Junior), Plant Engr., The Buckeye Steel
 Castings Co.
 Dennis, Basil Wrenn (Junior), Engr., E. W. Clark & Co.
 Management Corp., 910 Wyandotte Bldg.
 Fitz, Ervin M. (Junior), Elec. Engr., M. P. Dept., Pa. Lines
 West of Pittsburgh, New First Natl. Bank Bldg.
 Flory, John Henry, Asst. Sales Mgr., The Jeffrey Mfg. Co.
 Frankenberg, George T., Contr., Normandie Hotel.
 Gamper, Herman, 478 W. 5th Ave.
 Hirsch, Gustav, Cons. Engr., 956 Jaeger St.
 Hitchcock, Embury A., Power Sales Engr., E. W. Clark & Co.
 Management Corp., 910 Wyandotte Bldg.
 Hopkins, Michael Sullivant, V. P., E. W. Clark & Co. Man-
 agement Corp., 1001 Wyandotte Bldg.
 Ives, Frederick Walter (Junior), Instr. Engrg. Drawing, Ohio
 State Univ.
 Judd, Horace, Assoc. Prof. Exper. Engrg., Ohio State Univ.
 McMeen, Samuel G., Cons. Engr., Pres., Columbus Ry. & Light
 Co., 1001 Wyandotte Bldg.
 Magruder, Wm. T., Prof. Mech. Engrg., Ohio State Univ.
 Marquis, Franklin Wales (Junior), Prof. Steam Engrg., Ohio
 State Univ.

OHIO, Columbus (Continued).

- Mickle, Frank A. (Junior), Designer, Buckeye Steel Castings Co.
- Mount, Carroll Hays (Junior), Power Engr., E. W. Clark & Co. Management Corp., 910 Wyandotte Bldg.
- Renner, Roland B. (Junior), Mech. Engr., Jeffrey Mfg. Co.
- Riddle, Howard Sterling, Cons. Engr., Ohio Bd. of Administration, Hartman Bldg.
- Sanborn, Frank Edwin, Prof. Industrial Arts, Ohio State Univ.
- Smith, Roy B., M. P. Inspr., Pa. Lines West.
- Wyer, Samuel S., Cons. Engr., Harrison Bldg.
- Conneaut, Ashtabula Co.**—Brown, J. Linwood, Mech. and Cons. Engr., R. F. D. No. 1.
- Fickinger, P. J., Mech. Engr., P. & C. Dock Co.
- Dayton.**—Buvinger, George A., Engr. Hyd. Dept., Platt Iron Wks. Co.
- Canby, Harry Beaver (Junior), V. P., Crawford, McGregor & Canby Co.
- Cooper, Eugene Smith (Junior), Draftsman Invention Dept., Natl. Cash Register Co.; also, Muskegon, Mich.
- Custer, Levitt Luzern (Junior), Test Dept., The Natl. Cash Register Co.
- Deeds, Edward Andrew, V. P., Natl. Cash Register Co., and Pres., The Dayton Engrg. Laboratories Co.
- Estabrook, Harry Morse, Pres., The Barney & Smith Car Co.
- Fassett, Francis Keith, Inventor, Designer and Pat. Atty., 1309 U. B. Bldg.
- Fogarty, William James, Mech. Engr., Barney & Smith Car Co.
- Hopkinson, Joseph, Supt., The Computing Scale Co.
- Kressler, Oscar, Maintenance Engr., The Natl. Cash Register Co.
- Martin, Haakon A., Head Invention 5, Natl. Cash Register Co.
- Ripsch, Charles William (Junior), Cons. Mech. Engr., 113 Hawthorn St.
- Rowe, D. Ray (Junior), Ch. Engr., The Kidder-Oswald Co., 5th and Norwood Ave.
- Schneble, Rudolph G., Cons. Mech. Engr., 1627 E. 3d St.
- Vaile, J. Henry, Pres. and Treas., Vaile & Kimes.
- von Pein, Edward J., Inventor and Designer, Natl. Cash Register Co.
- Wells, Edward C., The Platt Iron Wks. Co.
- Yates, Richard L. (Junior), Asst. Sales Mgr., The Platt Iron Wks. Co.
- East Cleveland.**—Chadwick, Lee S., Mech. Engr., Cleveland Fdy. Co. and Cleveland Metal Products Co., Ivanhoe Rd.
- Miller, Walter, 24 Rosemont Rd.
- Elyria.**—Gray, William Emery, Genl. Sales Mgr., Enameled Pipe & Engrg. Co.
- Martell, Louis H., Specialist in Metal Packings.
- Nailler, Raymond Frederick, Pres. and Genl. Mgr., The Enameled Pipe & Engrg. Co.
- Piercy, Edgar, 218 Washington Ave.
- Hamilton.**—Ayers, Norwood B., Mech. Engr., Champion Coated Paper Co.
- Cullen, James K., Pres., The Niles Tool Wks.
- Frechtling, Arthur Geo. (Junior), 216 N. C St.
- Glaser, Carl Edward (Junior), Mech. Draftsman, The Hooven Owens. Rentschler Co.

OHIO, Hamilton (Continued).

- Griffin, Michael E., Selling Engr., The Hooven, Owens, Rentschler Co.
 Helvey, Clarence H. (Junior), Sales Engr., 303 N. 2d St.
 Helvey, George Stanley (Junior), Secy. and Treas., Miami Fdy. Co.
 Holman, R. Claude, Genl. Supt., The Hooven, Owens, Rentschler Co., P. O. Box 385.
 Kutter, H. L., Secy., Sales Mgr. and Engr., The Black-Clawson Co.
 Mayo, Wm. Benson, Secy. and Genl. Mgr., The Hooven, Owens, Rentschler Co.
 Mitchell, Guy C., Head of Production and Engrg. Depts., The Hooven, Owens, Rentschler Co.
 Reiss, George T., V. P., Niles Tool Wks.
 Rentschler, Gordon Sohn (Junior), V. P. and Fdy. Mgr., The Hamilton Fdy. & Mch. Co.
 See, James W., Mech. Engr., Rentschler Bldg.
 Stacks, H. Roy, Supt., The Black-Clawson Co.
 Trowbridge, Francis C. (Junior), Pres. and Genl. Mgr., The Black-Clawson Co.
 Wood, Augustus, Ch. Draftsman, Niles Tool Wks. Co.
- Hillsboro.**—Shirley, Loyd Emmet, Supt., The C. S. Bell Co.
- Ivorydale.**—Anderson, Robert, Ch. Engr., Proctor & Gamble Co.
 Manley, Summer M. (Junior), Asst. Mech. Engr., The Proctor & Gamble Mfg. Co.; also, Kansas City, Mo.
- Lexington.**—Smith, Harry Ford, Secy. and Genl. Mgr., Smith Gas Power Co.
- Lima.**—Austin, William Arthur, Ch. Mech. Engr., Lima Loco. Corp., S. Main St.
 Buckley, John Francis, Genl. Mgr., Buckley Spec. & Mch. Co.
 Coutant, Jay Gould, Engr. of Plant, Lima Loco. Corp.; also, Watervliet, N. Y.
 Wall, Geo. L., V. P., Lima Loco. Corp.
 Werst, Chas. Wm., Supt., Lima Loco. Corp.
- Lockland.**—Haines, Philip G. (Junior), 301 Wayne St.
- Lorain.**—Brown, Earle Wayne, Asst. Supt. Blast Furnaces, The Natl. Tube Co.
 Farkell, George C., Supt. Rail Mill and Mech. Dept., The Natl. Tube Co., Lorain Wks.
 Lundgren, Charles G., M. M., The Natl. Tube Co.
 Suppes, Max M., The Natl. Tube Co.
 Waterman, Fred Walter, Mech. Engr., The Natl. Tube Co.
- Mt. Vernon.**—Thomas, Fred H. (Junior), Sales Engr., The C. & G. Cooper Co.
- Mansfield.**—Bancroft, George Arthur (Junior), Designer, Aultman & Taylor Mch. Co., Diamond St.
 Brown, John Rowland, Mech. Engr., Ohio Brass Co.
 Rice, Geo. W., Wks. Mgr., Aultman Taylor Mch. Co.
 White, E. Field, Ch. Engr., White Bros. Co.
- Marion.**—Fellmeth, J. W., Asst. Engr., The Marion Steam Shovel Co.
 King, Charles B., Ch. Engr., The Marion Steam Shovel Co.
- Martins Ferry.**—Skogmark, John, P. O. Box 93.
- Massillon.**—Garrigues, Edmund, Ch. Engr., The Russell & Co.
 Heggem, Charles O., Genl. Supt., The Russell & Co.

OHIO (Continued)

Miamisburg.—Carpenter, Charles U., Pres., Fire-Proof Furniture & Constr. Co., Pres., Midland Ores & Patents Co., Rm. 611, 80 Maiden Lane, New York, N. Y.

Mingo Junction.—McConnell, Malcolm Findley, Supt. Mingo Steel Wks. and Furnaces, Carnegie Steel Co.

McGee, Frank Raymond, Mech. Engr., Mingo and Bellaire Wks., Carnegie Steel Co.

Tipton, William Howard (Junior), Steam Engr., Mingo and Bellaire Wks., Carnegie Steel Co.

Newark.—Blair, Frank Merton, V. P. and Genl. Mgr., Blair Mfg. Co., P. O. Box 308.

Norwood.—Curtis, Edma H., Jr. (Junior), Mech. Engr., 1981 Cleaneay Ave.

Hecker, H. A., 2032 Elm Ave.

Stutz, C. C., Cons. Engr., 3830 Forest Ave.

Nottingham.—Mitchell, William Clark.

Piqua.—Hartley, Harry Dwight (Junior), Pioneer Pole & Shaft Co.

Portsmouth.—Barrett, Dwight Orion (Junior), Supt., Heer Eng. Co.

York, L. D., Pres., Portsmouth St. R. R. & Light Co.

Salem.—Cooper, Geo. S., Mech. Engr., Buckeye Eng. Co.

Emeny, Fred'k James, Ch. Engr., The Deming Co.

Hunt, Charles B., Supt. of Constr., Buckeye Eng. Co.

Mansfield, Albert K., 283 Lincoln Ave.

Weeks, Charles H., V. P., Buckeye Eng. Co.

Sandusky.—Millsbaugh, William H., Pres., Sandusky Fdy. & Mch. Co.

Springfield.—Bauer, Chas. L., Pres., The Bauer Bros. Co.

Bayley, W., Pres. and Ch. Engr., The Wm. Bayley Co.

Hoppes, John J., Pres., Hoppes Mfg. Co., and Trump Mfg. Co.

Kelly, O. W., Pres., O. S. Kelly Co.

Packham, Frank R., Mgr. Dept. Design and Patents, Am. Seeding Mch. Co.

Perks, George W., Supt., Am. Seeding Mch. Co.

Shouplin, Patrick J., Prop., Superior Gas Eng. Co.

Tiffin.—Findley, William D., Ch. Engr., Webster Mfg. Co.

Toledo.—Boblett, Kinderman M., Radiator Expt., The Kinsey Mfg. Co.

Calder, C. B., V. P. and Genl. Mgr., The Toledo Shipbuilding Co.

Cowgill, Paul Everett (Junior), Traffic Ch., Central Union Tel. Co.

Dorman, Neal Wadsworth (Junior), Mch. Designer, The Toledo Mch. & Tool Co.

Hallenbeck, George E., Genl. Supt., Baker Bros., Post St. and Westlake Ave.

Hinde, Louis Joseph, Secy., The Toledo Mch. & Tool Co.

Rathbun, Edward, Second V. P., Rathbun-Jones Engrg. Co.

Rathbun, Geo. Jay, V. P. and Engr., Rathbun-Jones Engrg. Co.

Smith, Ellis Burton (Junior), Supt. Toledo Lamp Wks., Genl. Elec. Co.

Smith, Persifor Frazer, Jr., Supt. M. P., Pa. Lines, 1036 Ohio Bldg.

Yaryan, Homer T., V. P., The Yaryan Naval Stores Co.

Warren.—Gorton, J. C., Cons. Engr., 210 Olive St.

OHIO (Continued).

Wickliffe.—Robbins, C. C., Secy. and Genl. Mgr., The Cleveland Crane & Engrg. Co.

Xenia.—Garfield, Lyman Morse, Supt., Miami Powder Co.

Youngstown.—Bixler, Harry Z., Ch. Engr., The Brier Hill Steel Co.

Bray, Thos. Jos., Pres., Republic Iron & Steel Co.

Gowie, William, 157 Warren Ave.

Helander, Axel. H., Sales Mgr. and Cons. Engr., The William Tod Co.

Jett, Carter C. (Junior), 527 Yale Ave.

McBane, Walter Watson, Engr., The William Tod Co.

Nibecker, Karl (Junior), Steam Engr., Youngstown Sheet & Tube Co.

Pinger, George C. (Junior), The Youngstown Sheet & Tube Co.

Robinson, C. Snelling, Second V. P., Youngstown Sheet & Tube Co.

Wear, Burt C. (Junior), Youngstown Sheet & Tube Co.

Wick, Henry, 710 Dollar Savings & Trust Co. Bldg.

Wilson, Robert Alexander (Junior), Ohio Wks., Carnegie Steel Co.

Woodard, Louis A., V. P. and Genl. Mgr., The William Tod Co.

Young, John P., Pres., Reinforced Tile Roof Co., Box 43.

Zanesville.—Ellis, Frank I., Mgr., Mark Mfg. Co.

McCoy, William (Junior), Mech. Engr., Am. Encaustic Tiling Co.

Mark, Perry C., Asst. Mgr. Zanesville, O., Plant, Mark Mfg. Co. of Chicago, Ill.

OKLAHOMA

Stillwater.—Chandler, Richard Edward, Dean of Engrg., Okla. Agri. and Mech. College.

OREGON

Corvallis.—Graf, Samuel Herman (Junior), Assoc. Prof. Exper. Engrg., Ore. Agri. College, P. O. Box 271.

Rosencrants, Fay Harry (Junior), Instr. Mech. Engrg., Ore. Agri. College.

Medford.—Steenstrup, P. S., Pres., Pacific Motor Supply Co., 220 W. Main St.

Nehalem.—Reed, Samuel Gordon (Junior), Pres., Neahkahnne Mountain Land Co.

Oswego.—Gilbert, Lloyd Damond.

Portland.—Ball, Bert Chas., V. P. and Genl. Mgr., Willamette Iron & Steel Wks.

Grelle, Charles Edward (Junior), Pres. and Mgr., Independent Fdy. Co., 23d and York Sts.

Hill, Benjamin Wood (Junior), Hill Military Academy.

Hoyt, Raymond D., V. P. and Genl. Mgr., Warren Constr. Co., 700 Journal Bldg.

Lazell, Ellis Warren, Cons. Engr., Edwards & Lazell, 426-429 Ry. Exch. Bldg.

Warren, Walter B., V. P., Warren Bros. C., 711 Journal Bldg.

PENNSYLVANIA

- Allentown.**—Pleasanton, F. Rodney (Junior), Wks. Mgr., Mack Plant, Internatl. Motor Co.
 Robinson, H. B., Mech. Engr., Supt. of Shops, Allentown Rolling Mills.
- Altoona.**—Buckwalter, Tracy V., Mech. Engrg. Dept., Pa. R. R. Dunbar, William Otis, Asst. Engr. Test Dept., Pa. R. R.
 Kassander, Arno R. (Junior), Spec. Apprentice, M. P. Dept., Pa. R. R. Co.
 Kiesel, William Frederic, Jr., Asst. Mech. Engr., Pa. R. R., 12th Ave. and 12th St.
 Koch, George B., Genl. Foreman, South Altoona Foundries, Pa. R. R. Co.
 Rhoads, George Elwood (Junior), Asst. Foreman Loco. Test Plant, Pa. R. R.
 Wallis, James T., Genl. Supt. M. P., Pa. R. R., Lines East of Pittsburgh.
 Young, Chas. D., Engr. of Tests, Pa. R. R. Co.
- Ambridge.**—Bernard, James L., Mech. Engr., Am. Bridge Co.
- Apollo.**—Lock, Robert, Pres. and Mgr., Apollo Steel Co.
- Bangor.**—Werner, J. Edward, 71 N. 3d St.
- Bath.**—Franks, Fredk. B., Mgr. Operating and Constr., Cement Plant, Bath Portland Cement Co.
- Beaver Falls.**—Oatman, Paul B. (Junior), Genl. Mgr., Ideal Tool & Mfg. Co.
 Wendell, Henning Gabriel, Ch. Engr., Asbestos Protected Metal Co.
- Bethlehem.**—Nagle, A. F., Cons. Engr., 22 S. High St.
 Newbury, George K. (Junior), Packer Ave., W. S.
 Pettinos, George Francis, Mfr. and Miner of Graphite, Pettinos Bros.
- Braddock.**—Broden, Edwin H., Supt. Braddock Wks., Am. Steel & Wire Co.
 Chess, Harvey B., Jr. (Junior), Pres., The Consldtd. Expanded Metal Cos.
 Danks, Alfred C. (Junior), Gas Engr., Ch. Engr. Elec. Power Sta., Edgar Thomson Wks. Carnegie Steel Co.
- Bradford.**—Müllhaupt, Alfred, Jr. (Junior), Mech. Engr., Corliss Carbon Co.
 Rose, John H., Secy. and Genl. Mgr., Bradford Elec. Light & Power Co.
- Bridgeport, Montgomery Co.**—Bray, Charles W., R. D. No. 1.
- Bridgeville.**—Anderson, Ross, Factory Supt., Flannery Bolt Co.
 Ferrier, Walter, Asst. Supt., Am. Vanadium Co.
- Bristol.**—Dodds, Wm. E., Genl. Mgr., Stand. Cast Iron Pipe & Fdy. Co.
- Brookville.**—Jenks, William H.
- Burnham.**—Fry, Lawford H., Supt. of Product, Stand. Steel Wks. Co.
- Butler.**—Allman, John H., Mgr. Wks., Stand. Steel Car Co., Forged Steel Wheel Co.
 Christianson, Andrew, Ch. Engr. Engrg. Dept., Stand. Steel Car Co.
 Sutherland, James I. (Junior), Estimator, Stand. Steel Car Co.
- Bryn Mawr.**—Ely, Theo. N., Ch. of M. P., Pa. R. R., Ret.
- Carbondale.**—Hamilton, Wm. Juel, Secy., Hendrick Mfg. Co.
 Hiller, N. H., Pres., Carbondale Mch. Co.

PENNSYLVANIA, Carbondale (Continued).

Trautwein, Alfred P., V. P., Am. Welding Co.

Catasauqua.—Brodhead, Alex. L. (Junior), Cons. Engr.

Fuller, Col. James Wheeler, Jr., Pres., Lehigh Car, Wheel & Axle Wks.

Cementon.—Hochstrasser, Arnold, Supt. of Wks., The Whitehall Cement Mfg. Co.**Chester.**—Stevenson, William Alston, Mgr., Keystone Drop Forge Wks.**Coatesville.**—Entrekin, Norman Reese, Genl. Supt., Worth Bros. Co.

Haldeman, Paul Collins (Junior), M. M., Lukens Iron & Steel Co.

Huston, Charles L., V. P. and Wks. Mgr., Lukens Iron & Steel Co., and V. P. and Wks. Mgr., Jacobs-Shupert U. S. Fire Box Co.

Conshohocken.—Logan, John W., Mgr. Steel Wks. Dept., Allan Wood Iron & Steel Co.**Crafton.**—Ashworth, Daniel, Cons. Engr., 67 W. Ridge Ave.**Crum Lynne.**—Rogers, John I. (Junior), Treas. and Engr., Eagan-Rogers Steel & Iron Co.**Darby.**—Vosbury, W. DeWitt, Mech. Engr., P. O. Bldg.**Dorranceton.**—Allaart, Cornelius J., 53 S. Walnut St.**Duquesne.**—Ahlen, William, Ch. Engr., Duquesne Steel Wks., Carnegie Steel Co.

Bailey, H. Morell (Junior), Safety Engr., Carnegie Steel Co.

East Downingtown.—Standley, Albert H. (Junior), V. P. and Genl. Supt., Downingtown Mfg. Co.**East Pittsburgh.**—Babcock, Sylvester, Genl. Foreman Power Plant, Westinghouse Elec. & Mfg. Co.

Bathgate, Owen Hamill, Wks. Steam Engr., Westinghouse Elec. & Mfg. Co.

Flint, William P., Engr. Gas Eng. Dept., Westinghouse Mch. Co.

Harrold, Frederick F., Tool Designer and Supvr., Westinghouse Elec. & Mfg. Co.

Herr, Edwin M., Pres., Westinghouse Elec. & Mfg. Co.

Herr, Herbert T., V. P. and Genl. Mgr., The Westinghouse Mch. Co.

Hodgkinson, Francis, Mech. Engr., Westinghouse Mch. Co.

Johnson, Charles W., Genl. Supt., Westinghouse Elec. & Mfg. Co.

Kaup, Wm. Joseph, Genl. Supvr. Small Tools, Westinghouse Elec. & Mfg. Co.

Lester, Bernard, Sales Engr., Westinghouse Elec. & Mfg. Co.

Longwell, Henry E., Cons. Engr., Westinghouse Mch. Co.

McCallister, Edgar W., The Westinghouse Mch. Co.

Martin, Frederick Sheldon, Supt. Industrial Motor Dept., Westinghouse Elec. & Mfg. Co.

Mills, Chester B., Mech. Engr. in Charge of Drafting Room, Westinghouse Elec. & Mfg. Co.

Norris, Edson R., Dir. of Mfg. Operations, Westinghouse Elec. & Mfg. Co.

Pulis, Wm. Eugene (Junior), Industrial Engr., Westinghouse Elec. & Mfg. Co.

Rose, E. Ernest (Junior), Engr., Westinghouse Elec. & Mfg. Co.

PENNSYLVANIA, East Pittsburgh (Continued).

Schoepf, Theodore H., Genl. Engr., Westinghouse Elec. & Mfg. Co.

Taylor, Alexander, Mgr. of Wks., Westinghouse Elec. & Mfg. Co.

Taylor, Donald F. (Junior), Commercial Engr., The Westinghouse Mch. Co.

Easton.—Brown, Gabriel Scott, Second V. P., Alpha Portland Cement Co.

Bryce, Richard M. (Junior), Under Instr., Ingersoll-Rand Co.
Dunn, William Robert, Wks. Mgr., Vulcanite Portland Cement Co.

Farrell, W. Elliston, Pres., Easton Car & Constr. Co.; also, Pres., Am. Die & Tool Wks., Reading.

Firmstone, Frank.

Jackson, Charles J., 30 S. 5th St.

Neave, Andrew A., Ch. Engr., Treadwell Eng. Co.

Tydeman, William A. (Junior), Secy., Macan Jr. Co.

Warren, Ralph Herbert, Economy Engr., Alpha Portland Cement Co.

Eddystone.—Albrecht, Otto, Mech. Engr., Tindel Morris Co.

Austin, William F., Supt., Eddystone Plant, Belmont Iron Wks.

Ellwood City, Lawrence Co.—Smith, Howard Wells (Junior), Ch. Engr., Stand. Eng. Co.

Stiefel, Ralph C., Mech. Engr.

Erie.—Armstrong, E. J., Engr., Ball Eng. Co.

Behrend, Ernest Richard, Pres. and Genl. Mgr., Hammermill Paper Co.

Chatain, Henri George, Engr. Gas Eng. Dept., Genl. Elec. Co.
Conrader, Rudolph, 708 Parade St.

Conrath, George B., Genl. Mgr., Nagle Corliss Eng. Wks.

Cummings, Edgar C., V. P. and Mgr., The Crawford-Cummings Co.; also, Waterloo, Ia.

Durban, Thomas Edward, Genl. Mgr., Erie City Iron Wks.

Gardiner, Walter B., Production Engr., 418 W. 11th St.

Hooper, Charles Stephen, Secy., Union Iron Wks.

Jarecki, Alexander, Secy., Jarecki Mfg. Co.

Kessler, Armin Geo. (Junior), Mgr., Lakeside Forge Co.

Richards, George M., Mgr., The Richards Co.

Skinner, Allan D., V. P., Skinner Eng. Co.

Smith, Mark Elmer (Junior), Draftsman, Erie City Iron Wks.

Stevens, R. C., Ch. Engr., Skinner Eng. Co.

Westcott, Henry P., Engr. Natural Gas Constr. Wk., Metric Metal Wks.

Wright, Ross Pier, Secy. and Treas., Reed Mfg. Co.

Fombell, Beaver Co.—Ruth, Wilbur M.

Franklin.—Callan, William H., Mgr. Compressor Plant, Chicago Pneu. Tool Co.

Carew, Clement J., V. P. and Mgr., Venango Mfg. Co.

Grieves, E. W., Mech. Expt., Galena-Signal Oil Co.; also, Baltimore, Md.

Haskell, Broderick, Miller Park.

Sherwood, Mather W., Asst. Mgr. Min. Dept., Chicago Pneu. Tool Co.

Wachs, Theodore (Junior), Wks. Mgr. Plant No. 2, Chicago Pneu. Tool Co.

PENNSYLVANIA (Continued).**Fullerton.**—Stubblebine, Winfred A., Engr., The Lehigh Fdy. Co.**Galeton.**—Darlow, A. M. (Junior), Supt. M. P., Buffalo & Susquehanna R. R.**Greensburg.**—Hutchinson, George Weymouth, Ch. Engr., Keystone Coal & Coke Co.**Greenville.**—Albridge, Frederick Royal, Ch. Draftsman, Bessemer & Lake Erie R. R.**Gwynedd Valley.**—Cathcart, William L., Cons. Engr.**Harrisburg.**—Allen, Benj. T., Ch. Engr., Harrisburg Fdy. & Mch. Wks.

Jackson, John Price, Pa. Commr. Labor and Industry, Dean Sch. of Engrg., Pa. State College, State College.

MacKenzie, William Percival, Treas. and Genl. Mgr., Harrisburg Fdy. & Mch. Wks.

Williams, Nezza N. (Junior), Mech. Engr., Harrisburg Light & Power Co.

Hazleton.—Jennings, Arthur Ballinger, V. P. and Mgr., The Jeanesville Iron Wks. Co.**Hollidaysburg.**—Kirk, William Fell, Mgr., McLanahan-Stone Mch. Co., 1005 Allegheny St.**Jenkintown.**—Thompson, S. K.**Johnstown.**—Bradshaw, Grant D., Steam Engr., Cambria Steel Co.

Clarke, Charles Edwin (Junior), Genl. Mill Repair Foreman, Cambria Steel Co.

Geer, James H., Engr. of Constr., Cambria Steel Co.

Gocher, John W., Cons. Engr., Cambria Steel Co.

Humbach, Karl Edward, Estimating Engr., Cambria Steel Co.

Marshall, Stewart McCulloch, Ch. Engr., Cambria Steel Co.

Morgan, Joseph, Cons. Engr., 408 Tioga St., Westmont.

Morrissey, Peter Joseph, Genl. Mgr., Citizens Light, Heat & Power Co. of Pa.

Ottinger, Harry (Junior), M. M., Franklin Open Hearth Dept., Cambria Steel Co.

Ramsey, William H. C., Supt., Johnstown Water Co., 332 Locust St.

Shepherdson, John William, Asst. Ch. Engr., Cambria Steel Co.

Stuart, Milton Caleb (Junior), Asst. Steam Engr., Cambria Steel Co.

Swarts, Guy Taylor (Junior), Repair Wk., Open Hearth Dept., Cambria Steel Co.

Symons, Johnson V., M. M., Blast Furnaces and Mills, Cambria Dept., Cambria Steel Co.

Webster, William Ralph, Asst. Ch. Draftsman, Cambria Steel Co.

Kennett Square.—Green, John Stevenson (Junior), Supt., Am. Rd. Mchy. Co.**Koppel.**—Ellis, Humphrey Alfred, Genl. Supt., Orenstein-Arthur Koppel Co.**Lancaster.**—Fraim, Samuel R., Secy. and Mech. Engr., The E. T. Fraim Lock Co.

Vandergrift, James W., V. P., So. Pipe Line Co.

Lansford.—Whildin, William G., Supt. Inside Div., Lehigh Coal & Navigation Co.**Latrobe.**—Eckfeldt, John Jacob, Mech. Engr., Latrobe Wks., Ry. Steel Spring Co.

Mahon, Wm. L'E., Latrobe Elec. Steel Co.

PENNSYLVANIA (Continued).

- Lebanon.**—Crowell, William Jas., Jr. (Junior), Ch. Chem. and Test Engr., Am. Iron & Steel Mfg. Co.
- Leetsdale.**—South, Furman, Jr. (Junior), Charge Cost Dept., Riter-Conley Mfg. Co.
- Littiz.**—McCarte, Alexander James (Junior), Mech. Engr., Ideal Cocoa & Chocolate Co.
- McKeesport.**—Cornelius, William A. (Junior), Mgr., Natl. Tube Co., Natl. Wks.; Genl. Mgr., McKeesport Connecting R. R. Hoerr, Alexander L., Steam and Hyd. Engr., Natl. Tube Co., Natl. Wks.
- Leahy, Frank E. (Junior), Asst. Steam and Hyd. Engr., Natl. Tube Co.
- McCulloch, John A., Engr. Galvanizing Plant, Natl. Wks., Natl. Tube Co.
- Saunders, A. M., Supt., Natl. Tube Co.
- Snyder, George T., Mech. Engr. Natl. Wks. Natl. Tube Co.
- Media.**—Wood, William H. Engr., and Bldr. of Spec. Mchy., 10 South Ave.
- Middletown.**—King, George I., 114 N. Union St.
- Midland.**—Baltzell, W. H., Ch. Engr., Pittsburgh Crucible Steel Co.
- Milford.**—Sinclair, A. F.
- Munhall.**—McCollum, Caleb Addison (Junior), Exper. Engr., Carnegie Steel Co., Homestead Steel Wks.
- Parsons, William Claude (Junior), Blast Furnace Draftsman, Carnegie Steel Co., Homestead Steel Wks.
- Natrona.**—Walton, Marshall Rhodes (Junior), Wks. Engr., Pa. Salt Mfg. Co.
- Nazareth.**—Brobston, Joseph, Mgr., Dexter Portland Cement Co.
- Miller, John A., Pres., Dexter Portland Cement Co., Pres., Clinchfield Portland Cement Co.
- Tait, Edward Henry, Supt., Phoenix Portland Cement Co.
- Wolfe, Elvin A., Supt., Penn-Allen Cement Co.
- New Kensington.**—Ferry, Ralph Montague (Junior), 501 Sixth Ave.
- Northampton.**—Croll, A. Gilbert, Asst. Genl. Supt., The Atlas Portland Cement Co., and Supt., Northampton & Bath R. R.
- Northumberland.**—Sumner, Eliot, M. M., Pa. R. R.
- Oakmont.**—Duden, Emil G. (Junior), Ch. Engr., W. B. Scaife & Sons Co.
- Oil City.**—Bryant, George Forrester, Genl. Supt., Natl. Transit Co. Shops.
- Gnade, Edward R., Wks. Mgr., Oil Well Supply Co.
- Howard, Cecil D. (Junior), Draftsman, Natl. Transit Co. Shops.
- Luckenbach, Owen Francis, Supt. Genl. Mfg. Dept., Oil Well Supply Co., P. O. Box 366.
- Platt, Wilber O., V. P. and Supt., Jos. Reid Gas Eng. Co.
- Reid, Joseph, Pres., Joseph Reid Gas Eng. Co.
- Weymouth, Thomas Rote, Ch. Engr., United Natural Gas Co., 206 Seneca St.
- White, George Henry, Supt., Oil City Boiler Wks.
- Palmerton.**—Loveland, George Edmund, Ch. Draftsman and Structural Designer, N. J. Zinc Co.
- Layat, Felix, Mech. Engr., Eng. Dept., N. J. Zinc Co.
- Philadelphia.**—Allison, John Franklin (Junior), Mech. Engrg. Dept., Univ. of Pa.

PENNSYLVANIA, Philadelphia (Continued).

- Atterbury, Wm. Wallace, V. P. in Charge of Operation, Pa. R. Co., Broad St. Sta.
- Bailey, William J. (Junior), Mech. Engr., United Coal Co., Pa. Bldg.
- Ballinger, Walter Francis, Member of Firm, Ballinger & Perrot, Archs. and Engrs., 1211 Arch St.
- Bancroft, J. Sellers, Genl. Mgr. and Mech. Engr., Lanston Monotype Mch. Co., 24th and Locust Sts.
- Bancroft, Wilfred, Sales Mgr., Lanston Monotype Mch. Co., 24th and Locust Sts.
- Bark, Elmer, Instr. Mech. Engrg., Univ. of Pa., Engrg. Bldg.
- Barth, Carl G., Senior Member, Carl G. Barth & Son, Cons. Engrs., 6151 Columbia Ave.
- Batt, William Lorraine (Junior), Ry. Engr., The Hess-Bright Mfg. Co., Front St. and Erie Ave.
- Beecher, J. F., United Gas Improvement Co.
- Benner, Henry Lewis (Junior), Pres. and Genl. Mgr., Benner Mfg. Co., 224 S. 15th St.
- Bergey, John Edgar, Leadingman Draftsman Mchy. Div., Navy Yard, Bldg. 26.
- Bilgram, Hugo, Machinist, 1235 Spring Garden St.
- Birkinbine, John, Cons. Engr., Parkway Bldg., Broad and Cherry Sts.
- Blatchley, Chas. A., Mech. Engr., 1052 Drexel Bldg.
- Borden, John Morrow (Junior), Estimator, John Borden & Bros., 637 N. 19th St.
- Borden, Moro M., Mech. Engr., Simplex Valve & Meter Co., 208 Chancellor St.
- Bright, Fred. E., Pres., The Hess-Bright Mfg. Co., Front St. and Erie Ave.
- Bright, Holstein De Haven, Pres., Southwark Fdy. & Mch. Co., Washington Ave. and 5th St.
- Brinley, Charles Edward, V. P. and Mgr., The Am. Pulley Co., 4200 Wissahickon Ave.
- Brown, Richard P. (Junior), Pres., Brown Instrument Co., 9th St. and Montgomery Ave.
- Brown, Walter E. (Junior), Draftsman, Am. Engrg. Co.
- Bruegel, A. Theodore, Secy., The Hess-Bright Mfg. Co., Front St. and Erie Ave., Sta. E.
- Budd, Edward G., Pres., Edward G. Budd Mfg. Co., Ontario and I St.
- Bullock, Samuel A., Mgr. Elec. Truck Dept., The Baldwin Loco. Wks., 500 N. Broad St.
- Bullock, William Edward, Asst. to Secy. and Asst. Dir. of Sch., The Franklin Inst., 15 S. 7th St.
- Burnham, Wm., Pres. and Treas., Stand. Steel Wks. Co., Morris Bldg.
- Carter, Emmett B., Ch. Engr., Midvale Steel Wks.
- Champion, Harry W., Pres., Newton Mch. Tool Wks., Inc., 24th and Vine Sts.
- Chance, Thomas Mitchell (Junior), Min. Engr. with H. M. Chance as Asst. in Genl. Cons. Practice, 837 Drexel Bldg.
- Cheyney, Algernon R., Supt. of Operation, Philadelphia Elec. Co., 28th and Christian Sts.
- Child, Stanley G., Foreman of Mch. Shop, Baldwin Loco. Wks.
- Childs, Harold P. (Junior), Mgr., Phila. Office, Westinghouse Mch. Co., North Am. Bldg.

PENNSYLVANIA, Philadelphia (Continued).

- Clark, Walton, Second V. P., United Gas Improvement Co., Broad and Arch Sts.
- Coates, E. Osborne (Junior), Member of Exper. Dept., Wm. Sellers & Co., Inc., 1600 Hamilton St.
- Coburn, Frederic G., Asst. Naval Constr., U. S. N. Shop Supt., Navy Yard, Hull Div.
- Colpitts, James Vandever (Junior), Power Plant Equip., 27 S. 18th St.
- Converse, Bernard T., Engr. of Plant, Baldwin Loco. Wks., 500 N. 15th St.
- Cooke, Morris Llewellyn, Dir. of Pub. Wks., City Hall.
- Crane, Frederick Lea (Junior), Cadet Engr. Operating Dept., United Gas Improvement Co., Broad and Arch Sts.
- Crofoot, George Emerson, Instr. Mech. Engrg., Univ. of Pa.
- Dallett, Elijah, Mech. Engr., Midvale Steel Co.
- Dallett, W. P., Hyd. Engr. and Contr., 49 N. 7th St.
- Daugherty, Frank (Junior), V. P., Scofield Engrg. Co., 1324 Arcade Bldg.
- Davis, Leon Keith, Mgr., Columbia Inspec. Bureau, 425 Walnut St.
- Dawes, Robert, V. P. and Supt., Haskell, Dawes Mch. Co., Erie and Trenton Aves.
- Day, Charles, Member of Firm, Day & Zimmermann, 611 Chestnut St.
- Dill, Thomas Clark, Pres. and Genl. Mgr., T. C. Dill Mch. Co., Inc., Somerset, Mascher and Mutter Sts.
- Dodge, Albert, Member of Firm, Shore & Dodge, Archs. and Engrs., 608 Chestnut St.
- Dodge, James Mapes, Chairman of Bd., Link-Belt Co., Nicetown.
- Dodge, Kern, Cons. Engr., Morris Bldg., 1421 Chestnut St.
- D'Olier, William Livingston, Pres., D'Olier Centrifugal Pump & Mch. Co., 503 Morris Bldg.
- Douglas, Edwin Rust, Cons. Engr.
- DuComb, William Crawford, Jr., Engr., Royersford Fdy. & Mch. Co., 52 N. 5th St.
- Earle, Edgar P., Pres., Earle Gear & Mch. Co., Stenton and Wyoming Aves., Wayne Junction.
- Easby, Francis H., 3316 Powelton Ave.
- Ehlers, Henry Edward, Prof. Exper. Engrg., Univ. of Pa.
- Ehlers, Peter, Ch. Engr., Wm. I. McCahan Sugar Refining Co., foot of Tasker St.
- Emrie, Almon, Monterey Apt., 43d St. and Chester Ave.
- Evans, Henry O., Contr. and Designing Engr., Automatic Mchy., care of L. J. Palmer, 710 Commercial Trust Bldg.
- Evans, Wm. Penn, Mech. Engr., The Baldwin Loco. Wks., 500 N. Broad St.
- Eynon, Thomas M., Pres., Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
- Felton, Edgar Conway, Pres., Pa. Steel Co., Morris Bldg.
- Fernald, Robt. H., Whitney Prof. Dynamical Engrg., Univ. of Pa., and Cons. Engr., U. S. Bureau of Mines.
- Firth, William Edgar, Safety Engr., Midvale Steel Co., Box 1606.
- Fischer, Ad. Koerting, Pres., Schutte & Koerting Co., 12th and Thompson Sts.

PENNSYLVANIA, Philadelphia (Continued).

- Flagg, Stanley G., Jr., S. G. Flagg & Co., Morris Bldg., 1421 Chestnut St.
- Ford, Bruce, Fourth V. P., The Elec. Storage Battery Co., 19th St. and Allegheny Ave.
- Forsyth, William, Mech. Engr., 7020 Chew St., Mt. Airy.
- Francis, Isaac Hathaway, Cons. Engr., 1508 Commonwealth Trust Bldg.
- Francis, W. H., Union League, Broad and Sansom Sts.
- Freeman, Frederick Charles (Junior), United Gas Improvement Co., Broad and Arch Sts.
- Fuller, Allen Jenckes, Supt., Bureau of Water, City Hall.
- Fuller, Walter Dean, Mgr., Acctg. Dept., Curtis Publishing Co..
- Fulweiler, John Edwin, Member of Firm, Perkins, Fulweiler & Co., 122 N. 11th St.
- Gibson, Jas. Edwin, Prin. Asst. Engr., Am. Pipe & Constr. Co., 112 N. Broad St.
- Giele, Walter S. (Junior), Harrison Safety Boiler Wks.
- Gilmer, G. Walker, Jr., Mfr., 52 N. 7th St.
- Godfrey, Hollis, Pres., Drexel Inst.
- Goetz, Victor J. (Junior), Refrig. Engr. and Contr., Rep., Brunswick Refrig. Co., 345 N. 12th St.
- Graf, John C. (Junior), Designer, Link-Belt Co., Nicetown.
- Grant, Albert Weston, Jr. (Junior), Asst. to Engr. of Constr., Philadelphia Gas Wks., United Gas Improvement Co., League Island Navy Yard.
- Gray, John Wilson (Junior), Asst. to Genl. Mgr., Newport News Shipbuilding & Dry Dock Co., 407 Harrison Bldg.
- Green, Thomas Wilbraham, Mech. Engr., 2711 N. Park Ave.
- Hagman, W. J., Genl. Mgr., Bement-Miles Wks., 21st and Callowhill Sts.
- Hagy, J. Lawrence (Junior), 1525 Montgomery Ave.
- Haines, Edward Preston, 1803 N. 12th St.
- Halsey, Jas. T., Mech. Engr., 1347 Noble St.
- Hand, Francis Ludlam, 1948 N. 18th St.
- Hanks, Henry Mansfield, Supt. Inspec., Stand. Roller Bearing Co., 5001 Lancaster Ave.
- Hansell, William H., Pres., Smith & Hansell, Inc., Philadelphia Iron Fdy., 1625-1635 N. 5th St.
- Harding, James Morgan (Junior), Philadelphia Rep. De La Vergne Mch. Co., 380 Bourse Bldg.
- Harvey, Minor, Engr., Keystone-Hindley Gear Co., 704 Pennsylvania Bldg.
- Hathaway, H. K., Cons. Engr., 7215 Cresheim Rd., Mt. Airy.
- Heilmann, Carl A. (Junior), Engrg. Rep., Am. Radiator Co.
- Henderson, Geo. R., Cons. Engr., The Baldwin Loco. Wks., 500 N. Broad St.
- Hess, Henry, 928 Witherspoon Bldg.
- Hiller, Joseph Lilburne, Ch. Engr., Pa. Crusher Co., Stephen Girard Bldg.
- Hoopes, Clement R., Pres., Hoopes & Townsend Co., 1330 Buttonwood St.
- Howell, Edward I. H., Mech. Engr., 312 Bullitt Bldg.
- Israel, Charles Henry, Dist. Mgr., Harrisburg Fdy. & Mch. Wks., 619 Pennsylvania Bldg.
- Jackson, Arthur C., Genl. Supt., Secy. and Treas., Miller Lock Co., 4533 Tacony St., Frankford.

PENNSYLVANIA, Philadelphia (Continued).

- Jackson, Henry Wallace (Junior), Mech. Supt., Natl. Metal Edge Box Co.
- Jones, William R., Engr. of Constr., Univ. of Pa., 3401 Spruce St.
- Keely, Royal R., Cons. Management Engr., 1702 Mt. Vernon St.
- Kenney, Lewis H., Draftsman-in-Charge, Mchy. Div., Navy Yard.
- Kerr, William C., Constr. Engr., Philadelphia Rapid Transit Co., Ninth and Dauphin Sts.
- King, Charles W. G., Supt., U. S. Metallic Packing Co.
- Klumpp, John Bartleman, Inspc. Engr., United Gas Improvement Co., Broad and Arch Sts.
- Kneass, Strickland L., Mgr. Injector Dept., Wm. Sellers & Co., 1600 Hamilton St.
- Ladd, Jas. B., Cons. Engr., Mut. Life Bldg., 1011 Chestnut St.
- Lafore, John Armand, 1211 Noble St.
- Lanza, Cav. Gaetano, Engr., Baldwin Loco. Wks., 500 N. Broad St., and Prof. Emeritus Theor. and Applied Mechanics, Mass. Inst. of Tech., Boston, Mass.
- Lauer, Conrad N., Genl. Mgr., Day & Zimmermann, 611 Chestnut St.
- Lawrence, Howard F. (Junior), Am. Engrg., Co.
- Ledoux, J. W., Ch. Engr., Am. Pipe & Constr. Co., 112 N. Broad St.
- Leland, Frederic H., Comptroller, Stand. Roller Bearing Co., 5001 Lancaster Ave.
- Lemolne, L. R., Pres., U. S. Cast Iron Pipe & Fdy. Co., 1421 Chestnut St.
- Lewis, Wilfred, Pres., Tabor Mfg. Co., 18th and Hamilton Sts.
- Linch, Edward P., 4000 Baltimore Ave.
- Lober, William D., Secy. and Treas., Vulcanite Portland Cement Co., 1230 Land Title Bldg.
- Longstreth, Charles, Pres., U. S. Metallic Packing Co., 427 N. 13th St.
- Lord, Caleb Wheeler, Prop., Nicetown Plate Washer Co., 1824 Juniata St.
- Loss, Hendrik V., Cons. Engr., North Am. Bldg.
- Lovell, Alfred, Cons. Engr., 619 Harrison Bldg.
- Lowe, Wm. Vose, Engr. and Salesman, Hess-Bright Mfg. Co.; also, Fitchburg, Mass.
- Luther, Stephen Grinnell, The Philadelphia Rubber Wks. Co., Land Title Bldg.
- McBride, Thomas C., Sales Mgr., Internatl. Steam Pump Co., North Am. Bldg.
- McConnell, Robert Steffan, Asst. to Mech. Engr., The Baldwin Loco. Wks., 500 N. Broad St.
- McMullin, Frank V., Treas., Pa. Forge Co., Bridesburg Sta.
- Machold, Charles E., Mech. Engr., Machold & Riddell, Stephen Girard Bldg.
- Marble, Ernest G., Genl. Sales and Wks. Mgr., Am. Engrg. Co.
- Marot, Edward H. (Junior), Genl. Delivery, Germantown P. O.
- Merrill, Arthur C. (Junior), Dist. Engr., Bureau of Water, Dept. of Public Wks., City Hall.
- Mitchell, Walter K., Pres., W. K. Mitchell & Co., Inc., 29th and Ellsworth Sts.

PENNSYLVANIA, Philadelphia (Continued).

- Moore, Harold T., Industrial Engr., Day & Zimmermann, 611 Chestnut St.
- Morgan, Robert C., Engr., Stewart A. Jellett, Franklin Bank Bldg.
- Morris, Henry G., Commonwealth Bldg., 12th and Chestnut Sts., and Cons. Engr., Cresson Morris Co., 18th St. and Allegheny Ave.
- Mott, Abram Cox, Jr., First V. P. and Genl. Mgr., Abram Cox Stove Co., American and Dauphin Sts.
- Mowery, John N., Mech. Engr., Keystone Lubricating Co., 21st and Clearfield Sts.
- Muckle, John S., Mech. Engr., Franklin Bank Bldg.
- Muckle, M. R., Jr., Mech. Engr., 220 S. Broad St.
- Mudd, John Posey (Junior), Mech. Engr., Midvale Steel Co.
- Murphy, Edward Thomas (Junior), Sales Engr., Carrier Air Conditioning Co., 732 Real Estate Trust Bldg.
- Myers, Walter S., Ch. Draftsman, Ladd & Baker.
- Naegeley, John C., Engr. and Arch., 73 Rochelle Ave., Wissaickon.
- Nixon-Miller, Martin, War Dept., U. S. Engr. Office, 815 Witherspoon Bldg.
- Norris, Edward Wentworth (Junior), Draftsman, Southwark Fdy. & Mch. Co.
- Norris, Wm. H., Mech. Engr., Philadelphia Elec. Co., 1000 Chestnut St.
- Osbourn, Millard P. (Junior), Cons. Engr. and Arch., 202 Stephen Girard Bldg.
- Owens, Robert B., Secy., The Franklin Inst.
- Painter, John G. (Junior), Cons. Engr., 1916 Spring Garden St.
- Parish, Wm. H. (Junior), Sales Engr., Westmoreland Coal Co., 224 S. 3d St.
- Parker, John Clinton, Genl. Mgr., Parker Boiler Co., Pa. Bldg.
- Patterson, Wistar E., Dept. Dev. and Design, Elec. Storage Battery Co.
- Pfeiffer, Charles George, Member of Firm, Specialty Engrg. Co., Emerald and Cornwall Sts.
- Philipp, Paul C., 611 Chestnut St.
- Polakov, Walter Nicholas, Cons. Engr., Day & Zimmermann, 613 Chestnut St.
- Poultney, John Livingston, Ch. Engr., James Boyd & Bro., Inc., 25th and Wharton Sts.
- Rae, John, Ch. Draftsman, Tabor Mfg. Co.
- Ramsden, John Thomas, Ch. Engr., The Tabor Mfg. Co., 18th and Hamilton Sts.
- Reed, Hudson William, Management Engr., Day & Zimmermann, 611 Chestnut St.
- Reifsnyder, James D., Ch. Draftsman, Stokes & Smith Co., Summerdale.
- Rice, Myron Wesley (Junior), Am. Engrg. Co., Cumberland St.; also, Worcester, Mass.
- Riddell, A. H., Machold & Riddell, 1020 Stephen Girard Bldg.
- Ripley, S. Howard, Cons. Engr., Stephen Girard Bldg.
- Roberts, Percival, Jr., 717 Arcade Bldg.
- Rusby, John M., Engr. of Tests, United Gas Improvement Co., Broad and Arch Sts.
- Sammis, Norman Lewis (Junior), Rep., Builders Iron Fdy.

PENNSYLVANIA, Philadelphia (Continued).

- Sargent, Wm. Prescott, Pres., Mailing Device Co., Ltd., 1225 Spring Garden St.
- Satherberg, Carl Hugo, Ch. Engr., Midvale Steel Co., Nicetown.
- Schaum, Otto W., Pres., Schaum & Uhlinger, Inc., Mfrs. of Textile Mchy., and Pres., Atlas Ball Co., Glenwood Ave. and 2d St.
- Schedin, Per Hjalmar, Ch. Draftsman, Midvale Steel Co., Nicetown.
- Schoff, George C., Rep., Babcock & Wilcox Co., 1010 N. Am. Bldg.
- Schultz, John L., Mech. and Designing Engr., Am. Engrg. Co. Aramingo and Cumberland Sts.
- Sears, Willard T., Engr. of Mfg. Com., Niles Bement Pond Co. of New York, N. Y., care of Bement, Miles Wks., 21st and Callowhill Sts.
- Sellers, Coleman, Jr., Pres. and Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St.
- Shaw, Arthur Derwood, 611 W. Upsal St., Germantown.
- Shelmire, W. H., Jr., 69th and Launton Ave., Oak Lane.
- Sibson, Horace E. (Junior), Mech. Engr., Harrison Safety Boiler Wks., 17th St. and Allegheny Ave.
- Sinclair, George M., Cons. Engr., 618 Chestnut St.
- Spackman, Henry S., Pres., Henry S. Spackman Engrg. Co., 2024 Arch St.
- Stanford, J. Verne, Prof. Mech. Engrg., Univ. of Pa., Engrg. Bldg.
- Stevenson, A. A., V. P., Stand. Steel Wks. Co., 1104 Morris Bldg.
- Stirling, Allan, Drexel Bldg.
- Strobel, Victor O., Genl. Mgr. Crane Dept.; Niles-Bement-Pond Co., Mifflin and Meadow Sts.
- Strouse, Sidney B. (Junior), Engr. and Member of Firm, Pa. Engrg. Co., 1119-1121 N. Howard St.
- Sutton, George Ziegler, Asst. Treas. and Asst. Secy., Stokes & Smith Co., Summerdale Sta.
- Taber, William Brewster, Jr. (Junior), Cadet Engr., United Gas Improvement Co., Broad and Arch Sts.
- Tabor, Leroy, The Tabor Mfg. Co., 18th and Hamilton Sts.
- Taylor, Frederick W., Cons. Engr., Highland Sta., Chestnut Hill.
- Taylor, Harvey Birchard, Hyd. Engr., I. P. Morris Co., Beach and Ball Sts.
- Taylor, Lyndon Bigelow, Engrg. Bldg., Univ. of Pa.
- Thorne, Wm. H., Engr., Wm. Sellers & Co., 1600 Hamilton St.
- Toner, Edward Joseph, Jr. (Junior), Mech. Draftsman, Link-Belt Co., Hunting Park Ave. and Reading R. R.
- Townsend, David, Mech. and Cons. Engr., 1716 Spring Garden St.
- de Trampe, J. Adam C. L., 1703 Spruce St.
- Truitt, R. Marshall, Genl. Mgr., F. J. Stokes Mch. Co., 17th and Cambria Sts.
- Valentine, Louis Rossiter (Junior), Day & Zimmermann, 608 Chestnut St.
- Valtier, Franz V., Mech. Engr., Goetz Co., 1152-1154 German-town Ave.
- Van Duzee, Harold (Junior), Cons. Engr., 427 Walnut St.

PENNSYLVANIA, Philadelphia (Continued).

- Vauclain, Andrew C., Genl. Supt., Southwark Fdy. & Mch. Co., Washington Ave. and 5th St.
- Vauclain, Samuel M., V. P., The Baldwin Loco. Wks., 500 N. Broad St.
- Walker, Emery Lafayette, Hale & Kilbourn, 18th St. and Lehigh Ave.
- Walton, Albert, Factory Economist and Mfg. Acct., Franklin Bldg., 133 S. 12th St.
- Warriner, Samuel D., Pres., The Lehigh Coal & Navigation Co., 437 Chestnut St.
- Webster, William R., Cons. and Inspec. Engr., 411 Walnut St.
- Weidenbacker, Robert W. (Junior), Examiner, The Baldwin Loco. Wks., 500 N. Broad St.
- Wheatley, George Steele (Junior), Instr. Mech. Engrg., Univ. of Pa.
- Wheeler, Clifton Harold, V. P. and Genl. Mgr., C. H. Wheeler Mfg. Co., Lehigh Ave. and 18th St.
- Whitham, Jay M., Cons. Engr., 607 Bullitt Bldg.
- Wille, Henry Valentine, Asst. to Genl. Supt., The Baldwin Loco. Wks., 500 N. Broad St.
- Williamson, Wm. C., Valley Rd. and 12th St., Oak Lane.
- Wilson, Percy Hartshorne, Secy., Asso. of Am. Portland Cement Mfrs., 1526 Land Title Bldg.
- Wolf, Otto C., Engr. and Arch., 511-512 Denckla Bldg.
- Wood, Albert Carroll, Cons. Mech. Engr., Pa. Bldg., 15th and Chestnut Sts.
- Wood, Edward R., Jr. (Junior), Sales Mgr., R. D. Wood & Co., 400 Chestnut St.
- Wood, Geo. R., Elec. and Mech. Engr., Berwind-White Coal Min. Co., 1120 Arcade Bldg.
- Wood, Walter, R. D. Wood & Co., 400 Chestnut St.
- Yarnall, D. Robert, Mech. Engr., Yarnall-Waring Co., and Genl. Mgr. and V. P., Nelson Valve Co., Chestnut Hill.
- Yoder, Jacob Herbert (Junior), Instr. of Apprentices, Pa. R. R. Co., West Philadelphia.
- Zimmermann, John E. (Junior), Member of Firm, Day & Zimmermann, 611 Chestnut St.

Phoenixville.—Moyer, Allen V. (Junior), Mech. Engr., Heine Safety Boiler Co.

Pittsburgh.—Albree, Chester B., Pres. and Ch. Engr., Chester B. Albree Iron Wks. Co., 1115 Metropolitan St., N. S.

Amsler, Walter O. (Junior), Contr. Engr., Wabash Bldg.

Angstrom, C. Jonas, Mackintosh, Hemphill & Co.

Ayers, Hobart B., Genl. Mgr., H. K. Porter Co.

Bacharach, Herman, Mech. Engr., 1009 Hartje Bldg., 14 Wood St.

Backlin, Axel F., Constr. Engr., Am. Steel & Wire Co., Frick Bldg.

Baggaley, Ralph, Pres., Am. Pyritic-Conversion Co., 1291 Shady Ave., E. E.

Barbour, George Hurlbut, Asst. Ch. Mech. Engr., Carnegie Steel Co., Carnegie Bldg.

Barrett, John Henry, Genl. Mgr., Stand. Steel Tank & Mfg. Co., 2336 Henry W. Oliver Bldg.; also, Girard, O.

Bennett, Chas. W., Asst. to Pres., Am. Sheet & Tin Plate Co., 1320 Frick Bldg.

PENNSYLVANIA, Pittsburgh (Continued).

- Bentley, Ernest W., Mgr., Pittsburgh Office, Skinner Eng. Co., 507 Diamond Bank Bldg.
- Bleyer, Chas. F. (Junior), Erecting Engr., Allis-Chalmers Co., 814 Frick Bldg.; also, Milwaukee, Wis.
- Bole, Wm. A., Asst. Genl. Mgr., Westinghouse Mch. Co.
- Bolling, Stewart, Jr. (Junior), Turbine Engr., Genl. Elec. Am., 2032 Oliver Bldg.
- Bowman, Franklin Meyer, V. P., Blaw Steel Constr. Co., Farmers Bank Bldg.
- Boyd, William Charles, Asst. Engr., Pittsburgh Rys. Co., 435 Sixth Ave.
- Brashear, John A., Mfr., Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., N. S.
- Brendlinger, Wm. B., Mgr., Ingersoll-Rand Co., 1223 Farmers Bank Bldg.
- Brennan, James (Junior), Ch. Engr., Crucible Steel Co. of Am., 2032 Oliver Bldg.
- Breslove, Joseph (Junior), Engr., Geo. T. Ladd Co., Farmers Bank Bldg.
- Brown, Charles M., Genl. Sales Agt., Colonial Steel Co., 1203 Keystone Bldg.
- Bryen, Thomas T. (Junior), Mech. Engr. Gas Eng. Dept., Mesta Mch. Co.
- Buffum, F. D., Contr. Engr., 7002 Jenkins Arcade.
- Carpenter, Henry Albert, V. P., Riter-Conley Mfg. Co., 56 Water St.
- Chandler, Sellers McKee (Junior), Pres., Chandler-Boyd Supply Co., Terminal Warehouses.
- Chester, John Needels, Chester & Fleming, Cons. Engrs., Union Bank Bldg.
- Clapp, Geo. H., cor. 7th and Bedford Aves.
- Coffin, Wm. Carey, Struc. Engr., Jones & Laughlin Steel Co.
- Cole, Cyrus L., Centrifugal Pump Engr. Sales Dept., Epping-Carpenter Co.
- Connelley, Clifford B., Dean Sch. of Applied Industries, Carnegie Inst. of Tech., Schenley Park.
- Cook, Thomas R., Asst. Engr., M. P., Office Genl. Supt. M. P., Pa. Lines West.
- Cornelius, Henry Robert, Sales Engr., Mesta Mch. Co.
- Crawford, David Francis, Genl. Supt. M. P., Pa. Lines, Union Sta.
- Danner, Emil C. (Junior), Asst. Engr., Heppenstall Forge & Knife Co.
- Davis, Herbert R. (Junior), Ch. Engr., Hope Engrg. & Supply Co., 822-826 Farmers Bank Bldg.
- Dinkey, A. C., Pres., Carnegie Steel Co., Carnegie Bldg.
- Dreyfus, Edwin D., West Penn Traction & Water Power Co., First Natl. Bank.
- Ely, Sumner Boyer, V. P., Chester B. Albree Iron Wks. Co.
- Fawcus, Thomas, Pres., Fawcus Mch. Co., 2828 Smallman St.
- Fickes, Edwin S., Engr. and Pur. Agt., Aluminum Co. of Am.
- Fitzgerald, Charles, Mgr. Sales and Asst. Genl. Mgr., Pittsburgh Valve Fdy. & Constr. Co.
- Flagg, Samuel B. (Junior), Engr., U. S. Bureau of Mines, 40th and Butler Sts.
- Flickinger, Harrison William (Junior), Armstrong Cork Co., 24th St.

PENNSYLVANIA, Pittsburgh (Continued).

- Fox, John Herbert, Ch. Engr., Pittsburgh Plate Glass Co., Frick Bldg.
- Frohriebl, Louis C., Federal Engrg. Co., 1116 House Bldg.
- Gardner, Kirtland C., Sales Engr., United Engrg. & Fdy. Co., 2313 Farmers Bank Bldg.
- Graves, James Madison, Supt. Power Stas., Allegheny Co. Light Co., 435 Sixth Ave.
- Greger, Henrik (Junior), Asst. Ch. Engr., Epping Carpenter Pump Co.
- Greth, J. C. Wm., Mgr. Water Purifying Dept., Wm. B. Scaife & Sons Co.
- Grimshaw, Frederick G. (Junior), Asst. Engr. M. P., Pa. R. R.
- Helmann, Leopold, Charge of Condenser Dept., Mesta Mch. Co., Box 1124.
- Hibbard, Robert L., Wks. Mgr., Riter-Conley Mfg. Co.
- Hiles, Elmer K., Mech. Engr., 2511 Oliver Bldg.
- Hobbs, James Clarence (Junior), Steam Engr., Duquesne Light Co., 435 Sixth Ave.
- Hodges, Chas. Bowen (Junior), H. K. Porter & Co.'s Shop.
- Hood, Ozni Porter, Ch. Mech. Engr., U. S. Bureau of Mines, 40th and Butler Sts.
- Howarth, H. A. Stevens, Asst. Prof. Mch. Design, Carnegie Inst. of Tech.
- Hunter, John A., Steam Engr., Am. Sheet & Tin Plate Co., Frick Bldg.
- Hutchings, Clifford F., Branch Office Mgr., Sprague Elec. Wks., Oliver Bldg.
- Kaufman, Emanuel, Metallurgist on Steel, Farmers Bank Bldg.
- Kennedy, Julian, Cons. Mech. Engr., 1217 Bessemer Bldg.
- Kingsbury, Albert, Cons. Engr., 219 Stratford Ave.
- Knisely, Edw. S., West. Sales Rep., Bethlehem Co., 1406 First Natl. Bank Bldg.
- Knowles, Morris, Cons. Engr., 2548 Oliver Bldg., and Dir. Dept. of Sanitary Engrg., Univ. of Pittsburgh.
- Kohler, David S., Genl. Supt., Oliver Iron & Steel Co.
- Kreisinger, Henry, Engr., U. S. Bureau of Mines, 40th and Butler Sts.
- Ladd, George Tallman, Pres., The George T. Ladd Co., 1620 Farmers Bank Bldg.
- Laughlin, Alexander, Engr. and Contr., Alex. Laughlin & Co., 1805 First Natl. Bank Bldg.
- Laughlin, Alex., Jr. (Junior), V. P., Central Tube Co., First Natl. Bank Bldg.
- Lincoln, Paul Martyn, Genl. Engr., Westinghouse Elec. & Mfg. Co., P. O. Box 911.
- Lindstrom, Charles A., Asst. to Pres., Pressed Steel Car Co., Farmers Bank Bldg., and West. Steel Car & Fdy. Co. of Chicago, Ill.
- Lockwood, Burns D., Ch. Engr., Pressed Steel Car Co., Farmers Bank Bldg.
- McCarty, Frank James (Junior), Designing Engr., Tate, Jones & Co., Inc., 1007 Empire Bldg.
- McClelland, E. S., Engr. Gas and Steam Engs., The Westinghouse Mch. Co.
- McKean, Robert Andrews, Supt. Keystone Wks., Jones & Laughlin Steel Co., 3140 Second Ave.

PENNSYLVANIA, Pittsburgh (Continued).

- McMillen, Albert Knox, Ch. Engr., Alex. Laughlin & Co., 1805 First Natl. Bank Bldg.
- McNeil, Merritt Charles, Salesman, The Westinghouse Mch. Co.
- Macleane, Malcolm Roderick (Junior), Mgr. of Sales, Miscellaneous Dept., Am. Steel Foundries.
- Mann, Harvey Blaine (Junior), 1104 Diamond Bank Bldg.
- Maxfield, Howard H., M. M., Pa. R. R. Co., 28th St.
- Mesta, George, Pres., Mesta Mch. Co., Oliver Bldg.
- Moore, Fredk. Clouston, 1611 Denniston Ave., E. E.
- Moore, H. Lee (Junior), Charge Pittsburgh Office, Buffalo Forge Co., 1211 House Bldg.
- Moore, Lee C., Cons. Mech. Engr., Lee C. Moore & Co., 341 Sixth Ave.
- Moore, Wm. Enoch, V. P. and Genl. Mgr., West Pa. Traction & Water Power Co. Properties, 1900 First Natl. Bank Bldg.
- Munson, Charles Council, Mgr. Philadelphia Branch, Splitdorf Elec. Co. of N. Y., 210-212 N. 13th St.
- Murray, J. Weidman, Sales Mgr., Allis-Chalmers Mfg. Co., 814 Frick Bldg.
- Newman, Martin Freeze, Asst. Mgr. Water Purifying Dept. Wm. B. Scaife & Sons Co., 221 First Ave.
- Ottesen, Fredrik, Ch. Engr., Gas Eng. Dept., Mesta Mch. Co.
- Patterson, Peter C. (Junior), Ch. Engr., Natl. Tube Co., 1716 Frick Bldg.
- Peterson, Edward T., Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co., 1161 Frick Annex.
- Pinkerton, Andrew, Elec. Engr., Am. Sheet & Tin Plate Co.
- Porterfield, Henry A., Mgr., Dexter Oil Co., Peoples Bldg.
- Quigley, Jas. Edwin (Junior), Mgr. Insulation Dept., Armstrong Cork Co., 23d and River.
- Rea, James Childs (Junior), Supt. Rivet, Track, Bolt and Galvanizing Depts., Oliver Iron & Steel Co., S. 10th St.
- Robinson, Charles Griffith, Engr., Wheeling Steel Casting Co., Oliver Bldg.
- Robinson, James R., Pres., Robinson Ventilating Co., 8044-8045 Jenkins Arcade Bldg.
- Ruud, Edwin, Pres., Ruud Mfg. Co., 29th and Smallman Sts.
- Schaaake, William (Junior), Engr., Ry. Engrg. Dept., Westinghouse Elec. & Mfg. Co.
- Schweier, Arthur (Junior), Asst. Engr., Aluminum Co. of Am., 2402 Oliver Bldg.
- Sewell, J. G. Clifton (Junior), United Engrg. & Fdy. Co., Farmers Bank Bldg.
- Sherrerd, John Maxwell, Metallurgical Engr., Stroh Steel Hardening Process Co., 809 House Bldg.
- Shields, William D. (Junior), Riter-Conley Mfg. Co.
- Shipley, Grant B., Pres. and Genl. Mgr., Pittsburgh Wood Preserving Co.
- Smith, Cameron C., Pres. and Genl. Mgr., Union Steel Castings Co.
- Smith, Carl D. (Junior), Engr., U. S. Bureau of Mines, 40th and Butler Sts.
- Snyder, William E., Mech. Engr., Am. Steel & Wire Co., Frick Bldg.
- Stafford, Benjamin E. D. (Junior), Genl. Mgr., Flannery Bolt Co., Vanadium Bldg.

PENNSYLVANIA, Pittsburgh (Continued).

- Stewart, Reid T., Prof. Mech. Engrg., Univ. of Pittsburgh.
 Storer, Norman Wilson, Genl. Engr., Westinghouse Elec. & Mfg. Co.
 Straub, Albert A. (Junior), Steam Engr., Duquesne Light Co.
 Straub, Theodore Alfred, V. P. and Genl. Mgr., Fort Pitt Bridge Wks., 510 House Bldg., Smithfield and Water Sts.
 Strom, Carl A., Mgr., Am. Loco. Co.
 Stucki, Arnold, Engr., Oliver Bldg.
 Svenson, John A. F., Mech. Engr., Oliver Bldg.
 Taber, George H., Genl. Mgr., Gulf Refining Co., Frick Bldg. Annex.
 Tate, John M., Jr., Pres., Tate, Jones & Co., Inc., 1007 Empire Bldg.
 Terry, Charles D., Asst. to Genl. Supt., Natl. Tube Co., 1706 Frick Bldg.
 Thurman, Charles Ross, Ch. Engr., Elec. Renovator Mfg. Co.
 Todd, James, Pres. and Ch. Engr., The Sterling Varnish Co.
 Trinks, W., Prof. Mech. Engrg., Carnegie Inst. of Tech.
 Wadsworth, Frank L. O., Cons. Engr. and Pres., Miller Non-Corrosive Metal Co., 1347-1348 Oliver Bldg., 1801-1802 Commonwealth Blvd.
 Warner, Raymond Curtis, Dist. Mgr., Green Engrg. Co., 2545-2546 Oliver Bldg.
 Waters, William L., Designing Engr., Westinghouse Elec. & Mfg. Co.
 Westinghouse, George.
 Williams, D. Curtis, Mech. Engr., 664 Maryland Ave.
 Willock, S. R., Engr. of Sales, Mesta Mch. Co.
 Wilson, Henry D., V. P., Wilson Snyder Mfg. Co., 2 Ross St.
 Wilson, Nelson C., 209 Ninth St.
 Woodman, Forrest E. (Junior), Asst. Engr., U. S. Bureau of Mines, 40th and Butler Sts.
 Wurts, Edward Vanuxem, Mech. Engr., United Engrg. & Fdy. Co.
- Port Carbon.**—Allison, Robert, Mech. Engr., Ret.
- Pottstown.**—Bennett, R. M. (Junior), 438 High St.
 Jones, David Todd, Genl. Mgr. and Treas., Wilbraham Green Blower Co.
 Moore, Edwin A., Pres., Wilbraham Green Blower Co.
 Nichols, John T. (Junior), Ch. Engr., Chadwick Engrg. Wks.
- Pottsville.**—Hagerty, Walter W. (Junior), 614 Fairview St.; also, Brooklyn, N. Y.
 Leaman, Charles Henry (Junior), Prop., The Leaman Knitting Mill, 89 Main St.
 Lesser, W. H. (Junior), Mech. Engr., Philadelphia & Reading Coal & Iron Co.
- Reading.**—Bell, Joseph M., Mech. Engr., Reading Iron Co.
 Clouser, George Lawson (Junior), Spec. Apprentice M. P. Dept., Philadelphia & Reading R. R.
 Heizmann, Louis J. (Junior), V. P., Penn Hardware Co.
 Illmer, Louis, Jr., Ch. Engr. Gas Power Dept., Reading Iron Co.
 Isenberg, Hans O. C., Engr., The S G V Co.
 Schuhmann, George, V. P. and Genl. Mgr., Reading Iron Co.
- Ridgeway.**—Norton, Homer B., Ch. Engr., Elk Tanning Co.
- Rook.**—Du Barry, Ed. G. (Junior), Draftsman, Wabash Pittsburgh Terminal Ry. Co.

PENNSYLVANIA (Continued).

Seranton.—Clemens, A. B., Prin., Sch. Mech. Engrg., Internatl. Corr. Schs.

Foster, Rufus J., V. P., Internatl. Text Book Co., Managing Editor, The Colliery Engineer, 434 Wyoming Ave.

Fuller, Ray W., Elec. Engr., 1530 Wyoming Ave.

Harris, John J., Mech. Engr., Bd. of Ed., Administration Bldg., Washington Ave.

Holloway, Thurman Welford, Asst. Prin. Sch. Mech. Engrg., Internatl. Corr. Schs.

Mattes, Wm. F., Ret., 1529 Sanderson Ave.

Waddell, Joseph Addison, Jr., Genl. Supt., Spencer Heater Co., 1540 Albright Ave.

Webber, Henry, Mech. Engr., Finch Mfg. Co.

Shamokin.—Mullen, John, Genl. Mgr., John Mullen & Son, 516 N. Franklin St.

Sharon.—Acker, Kemp G. (Junior), Draftsman, Petroleum Iron Wks.

Kranz, William G., Mgr., Sharon, Pa., and Melrose Park, Ill., Wks., Natl. Malleable Castings Co.

Morrison, Egbert R. (Junior), Mgr., Morrison Boiler Co.

Rigby, Albert Vernon (Junior), M. M., Sharon Wks., Carnegie Steel Co.

Warren, George Sessions, Ch. Engr., Sharon Steel Hoop Co.

Shawnee-on-Delaware.—Worthington, Charles C., Manwala-mink.

South Bethlehem.—Blakeley, George Henry, Struc. Engr., Bethlehem Steel Co.

Brunner, Roy Samuel, Operating Engr., Didier-March Co.

Butterfield, Thomas E., Asst. Prof. Mech. Engrg., Lehigh Univ.

Caum, Samuel L. (Junior), Mech. Engr., South Bethlehem Natl. Bank Bldg.

Colby, Albert Ladd, Cons. Engr., and Iron, Steel and Fuel Metallurgist, 447 Lehigh St.; also, New York, N. Y.

de Schweinitz, P. B., Prof. Mch. Design, Lehigh Univ.

Deily, Arthur Texter (Junior), Erecting Shop, Power Dept., Bethlehem Steel Co.

Grover, Charles Lowell (Junior), Designing Draftsman Ordnance Dept., Bethlehem Steel Co.

Harleman, Samuel Thomas, Supt. Crucible Steel Dept., Bethlehem Steel Co.

Johnston, Archibald, V. P., Bethlehem Steel Co.

Klein, Arthur W., Assoc. Prof. Mech. Engrg., Williams Hall, Lehigh Univ.

Klein, Joseph F., Dean of Faculty and Prof. Mech. Engrg., Williams Hall, Lehigh Univ.

Leibert, John, Supt. of Forge, Bethlehem Steel Co.

McCann, Warren Edward (Junior), Asst. to Supt. of Foundries, Bethlehem Steel Co.; also, Philadelphia.

Maguire, M. T., Engr. Power Dept., Bethlehem Steel Co.

Mixsell, Austin Davis, Bethlehem Steel Co.

Seem, Charles B. (Junior), Designing Draftsman, Eng. Dept., Bethlehem Steel Co.

Spencer, Robert Lyle (Junior), Instr. Mech. Engrg., Lehigh Univ.

Stout, R. Paul, Engr. of Ordnance, Bethlehem Steel Co.

von Philp, C., Mgr. Mchy. Dept., Bethlehem Steel Co.

West, Arthur, Mgr. Power Dept., Bethlehem Steel Co.

PENNSYLVANIA (Continued).

- State College.**—Calderwood, James P. (Junior), Assoc. Prof. Mech. Engrg., Pa. State College.
 Diemer, Hugo, Prof. Industrial Engrg., Pa. State College, and Cons. Industrial Engr.
 Mease, James Alexander, Assoc. Prof. Mch. Design, Charge Dept. of Mch. Design, Pa. State College.
 Moyer, James A., Prof. in Charge Dept. Mech. Engrg., and Engrg. Exper. Sta., Pa. State College, and Pennsylvania Bldg., Philadelphia.
 Wood, Arthur J., Assoc. Prof. Railroad Mech. Engrg., Pa. State College.
- Steelton.**—Abbott, Henry Warburton (Junior), Asst. to M. M., The Pa. Steel Co.
 Douglas, Morris Duncan (Junior), Mech. Engr. Exper. Dept., The Pa. Steel Co.
 Howells, Frank Edgar, Supt. of Shops, The Pa. Steel Co.
 Little, James Edwin, Mech. Engr., The Spanish-Am. Iron Co.
 Smith, William, Genl. M. M., Pa. Steel Co.
 Turner, Charles Prentice, Ch. Engr., Pa. Steel Co.
 Varnes, Samuel K. (Junior), Exper. Engr., Pa. Steel Co.
- Stowe.**—Tarbox, George Roger, Engr., Stanley G. Flagg & Co.
- Swarthmore, Del. Co.**—Beardsley, Arthur, Emeritus Prof. Engrg., Swarthmore College.
 Blessing, George Frederick, Prof. Mech. Engrg., Charge of Engrg., Swarthmore College.
- Swissvale.**—Corey, Fred Brainard, Engr. of Inspc. and Tests, Union Switch & Signal Co.
- Uniontown.**—Porter, George, Cons. Engr., Box 327.
 Willard, Lewis Leigh, Asst. Genl. Mgr., W. J. Rainey Coke Co.
- Upland, Delaware Co.**—Edgerton, Lloyd, B., Mech. Engr., Philadelphia Quartz Co.
- Vandergrift.**—Anderson, Howard L. (Junior), M. M. Vandergrift Wks., Am. Sheet & Tin Plate Co.
 Bodwell, Howard L., Asst. Dist. Mgr., Am. Sheet & Tin Plate Co.
- Verona.**—Swope, Bruce Milton (Junior), M. P. Inspr., Conemaugh Div., Pa. R. R.
- Washington.**—Lambie, James M. (Junior), Asst. Genl. Mgr., Findlay Clay Pot Co.
- Waynesboro.**—Frick, Abraham O., Pres., The Frick Co.
 Landis, Mark Homer, Genl. Mgr., Supt. and Engr., Landis Engrg. & Mfg. Co., 225 Ringgold St.
- Wilkes-Barre.**—Bunting, Douglas, Ch. Engr., Lehigh & Wilkes-Barre Coal Co.
 Flanigan, Edwin B. (Junior), Asst. to M. M. Spring Wks., Sheldon Axle Co.
 Koplin, Robert Deemer (Junior), Mech. Dept., Lehigh Valley Coal Co., 208 Coal Exch.
 Nicholson, Saml. T., Pres. and Genl. Mgr., Vulcan Iron Wks.
 Norris, Robert V., Cons. Engr., 524 Second Natl. Bank Bldg.
- Wilkesburg.**—Blaisdell, Allen Holt (Junior), 736 Wallace Ave.
 Herbert, Jack Stanley, Pres. and Genl. Mgr., The Herbert-Evans Co., 1037 Penn Ave.
 Honeywill, Albert William, Jr. (Junior), 522 Holmes St.
 Wood, Stanley Victor, Bachelor Hall.
- Williamson School P. O., Del. Co.**—Pratt, James Alfred, Dir., Williamson Free Sch. of Mech. Trades.

PENNSYLVANIA (Continued).

- Williamsport.**—Lynn, Thomas H. (Junior), Sales Mgr., Lycoming Fdy. & Mch. Co.
 Shepherd, Wm. G., Genl. Mgr., Shepherd Engrg. Co.
 Wendle, George Edward, Asst. Genl. Mgr., Charge Tech. Depts., Lycoming Edison & Williamsport Passenger Ry. Cos., P. O. Box 424, Willow and West Sts.
- Wilmerding.**—Turner, Walter V., Ch. Engr., Westinghouse Air Brake Co.
 Utley, Joseph Cole, (Junior), Westinghouse Air Brake Co.
- Windber.**—Sterner, Edward J. (Junior), Engr., Berwind White Coal Min. Co., Box 374.
- Woodlawn.**—Cronemeyer, Henry C., Efficiency Engr., Jones & Laughlin Steel Co.
 Gressly, Oscar Emil, Ch. Engr., Aliquippa Wks., Jones & Laughlin Steel Co.
- York.**—Campbell, Gordon (Junior), Pres. and Genl. Mgr., York Rys. Co., 27 W. Market St.
 Farquhar, Francis, Genl. Mgr., A. B. Farquhar Co., Ltd.
 Felthousen, John H., Hyd. and Mech. Engr., S. Morgan Smith Co.
 Shipley, Thos., V. P. and Genl. Mgr., York Mfg. Co.

PHILIPPINE ISLANDS

- Manila.**—Blaisdell, Benjamin H., Ch. Engr., Manila Elec. R. R. & Light Co.
 Ireland, Mark L., Capt. Coast Artillery Corps, U. S. A., Fort Mills.
 Naess, Ragnvald (Junior), Mech. Engr. Engrg. Dept., Am. Trading Co.
 Strong, Frank L., Dealer in Am. Mchy. and Supplies, 105 Escolta.

PORTO RICO

- Arecibo.**—Burlingame, Wm. B., Arecibo Ice & Soda Water Co., Inc.; also, Exeter, N. H.
- Fajardo.**—Scherr, Frederick, Jr., Ch. Engr., Fajardo Sugar Co.
- Manati.**—Saldana, Eduardo E., Mech. Engr. and Ch. Engr., Central "Monserate;" also, San Juan.
- Ponce.**—Junghans, Edward K., Supt. of Fabrication and Ch. Engr., Succession J. Serralles, Central Mercedita.
- San Juan.**—Teele, Fred W., Pres. and Genl. Mgr., Porto Rico Ry., Light & Power Co.

RHODE ISLAND

- Auburn.**—Murphy, William T., Genl. Mgr., Stand. Mchy. Co.
- Bristol.**—Herreshoff, John B., Pres. and Treas., Herreshoff Mfg. Co., 13 Burnside St.
- Pawtucket.**—Bixby, William P. (Junior), Union Wadding Co.
 Bliss, Edwin C., 69 Mulberry St.
 Bullock, Edwin R., Mech. Engr., 38 Brook St.
 Carpenter, James M., Pres., Treas. and Genl. Mgr., J. M. Carpenter Tap & Die Co., 17 Newell Ave.
 Davis, George H. (Junior), Secy., J. J. Kenyon Mfg. Co.
 Seabury, Dwight, Arch. and Engr., 12 East Ave.
 Westcott, Valorus Stukely, Mech. Supt., J. & P. Coats, Inc.

RHODE ISLAND (Continued).

- Providence.**—Aldrich, John Gladding, V. P. and Genl. Mgr., N. E. Butt Co.
 Alexander, Walter Putnam, Engr. and Sales Mgr., Providence Engrg. Wks.
 Almy, Darwin, Pres., Almy Water Tube Boiler Co., 178-184 Allen Ave.
 Annan, Arthur H., Supt., R. I. Tool Co.
 Bartlett, Dwight Kellogg, Genl. Mgr. and Asst. Treas., Builders Iron Fdy., 9 Coddling St.
 Beaman, Elmer A., Beaman & Smith Co., Gordon and Reynolds Ave.
 Blanding, Robert Lincoln, Assoc. with Warren B. Lewis, Cons. Engr.
 Breckenridge, Andrew Lyndon (Junior), Bldg. Inspr., Narragansett Elec. Ltg. Co., 25 South St.
 Brooks, J. Ansel, Assoc. Prof. Mechanics and Mech. Drawing, Brown Univ.
 Brown, Ernest Wayne, V. P. and Engr., Blackstone and Merchants Mutual Fire Ins. Cos., 802 Grosvenor Bldg.
 Burlingame, Luther D., Ch. Draftsman, Brown & Sharpe Mfg. Co.
 Buttolph, Benjamin Gilbert, V. P. and Engr., Mfrs.' Mut. Fire Ins. Co., 815 Grosvenor Bldg.
 Chase, Frederic A., F. A. Chase & Co.
 Connet, Frederick N., Ch. Engr. and Sales Mgr. Venturi Meter Dept., Builders Iron Fdy.
 Cranston, Raymond Earl (Junior), Engr., Mfrs. Mut. Fire Ins. Co., 815 Grosvenor Bldg.
 Cross, Henry B., Secy., Genl. Fire Extinguisher Co., 275 W. Exchange St.
 Dart, William Crary, Pres., R. I. Tool Co.
 Dickerman, Albert Cornell, Mech. Engr., R. I. Supply & Eng. Co., 166 W. Exchange St.
 Du Villard, Henry A., Mech. Engr., 173 George St., East Side Sta.
 Estes, William Wood, Designer, Genl. Fire Extinguisher Co.
 Fenner, Herbert N., Pres., N. E. Butt Co.
 Freeman, John R., Pres., Mfrs. Mut. Fire Ins. Co., 815 Grosvenor Bldg.; also, Cons. Engr., N. Y. Bd. of Water Supply, 165 Broadway, New York, N. Y.
 Fuller, Arthur Ames, Supt., Providence Engrg. Wks.
 Giles, C. E., Agt., Am. & British Mfg. Co.
 Guy, Albert Emile, Mech. Engr., Providence Engrg. Wks.
 Hall, James Alexander (Junior), Instr. Mech. Engrg., Brown Univ.
 Hunt, Herbert R. (Junior), Mech. Engr., William Williams, Contr., 86 Weybosset St.
 Jenks, Richard P., Cons. Engr., Jenks & Ballou, 735 Grosvenor Bldg.
 Kenerson, Wm. Herbert, Prof. Mech. Engrg., Brown Univ.
 Kennedy, William A. (Junior), Testing Engr., Genl. Fire Extinguisher Co.
 Lambelet, Carl H. (Junior), Providence Engrg. Wks.; also Hoboken, N. J.
 Loepsinger, Albert John, Mech. Engr., Genl. Fire Extinguisher Co.
 McGregor, Hugh R., Mech. Supt., Brown & Sharpe Mfg. Co.

RHODE ISLAND, Providence (Continued).

- McIntosh, Samuel Fraser, Constr. Engr., 1401 Turks Head Bldg.
- McSoley, Frank Bartlett (Junior), Service Dept., Narragansett Elec. Ltg. Co.
- MacLeod, Frank Norman, Sales Engr., Brown & Sharpe Mfg. Co.
- Merritt, Arthur A., Mech. Engr., Brown & Sharpe Mfg. Co.; also, Worcester, Mass.
- Newton, George Henry, Asst. to Mech. Supt., Brown & Sharpe Mfg. Co.
- Ode, Randolph Theodore, Secy., Providence Lithograph Co., 353 Prairie Ave.
- Parker, John, Mch. Designer, Brown & Sharpe Mfg. Co.
- Pingree, Edwin Daniel, V. P. and Engr., Mfrs. Mutual Fire Ins. Co., 815 Grosvenor Bldg.
- Pitman, Stephen Minot, Secy., Narragansett Mut. Fire Ins. Co., P. O. Box 1422.
- Richardson, Charles Germane, Sales Engr., Meter Dept., Builders Iron Fdy.
- Richmond, Harold A. (Junior), Pres., Am. Emery Wheel Wks., 325 Waterman St.
- Richmond, Knight C., Cons. Engr., 526 Banigan Bldg.
- Robertson, R. A., Treas., Providence Engrg. Wks.
- Sargent, John W., Mech. and Cons. Engr., 303 Benefit St.
- Sharpe, Henry D., Treas., Brown & Sharpe Mfg. Co
- Sharpe, Lucian.
- Sheldon, F. P., Steam, Hyd., Elec. and Mill Engr., F. P. Sheldon & Son, Engrs. and Archs., Industrial Trust Bldg.
- Shipley, Albert R., Management Engr., N. E. Butt Co., 304 Pearl St.
- Smith, George H., Beaman & Smith Co., Gordon and Reynolds Aves.
- Snow, Sylvester M., Cons. Engr., 257 Gano St., East Side Sta.
- Viall, William A., Secy., Browne & Sharpe Mfg. Co.
- Walker, Frank A. (Junior), Engr., B. B. & R. Knight, 314 Dyer St.
- Walker, Sidney G., Engr., Mfrs.' Mut. Fire Ins. Co., 815 Grosvenor Bldg.
- Whitehead, George E., Mech. Engr., 621 Broadway.
- Williams, Irving, Salesman, Brown & Sharpe Mfg. Co.
- Saylesville.**—Fisher, Howard Colburn (Junior), Constr. Engr., Sayles Bleacheries.
- Gates, Thayer P., Glenlyon Dye Wks.
- Mackenzie, Morell (Junior), Industrial Engr., Glenlyon Dye Wks.
- Nickerson, John Winslow (Junior), Industrial Engr., Glenlyon Dye Wks.
- Read, Rollin T. (Junior), Engrg. Dept., Sayles Bleacheries.
- Reno, Harold P. (Junior), Sayles Bleacheries.
- Wood, Kenneth F., Supt., Sayles Bleacheries.
- Warren.**—Wightman, D. A., Cons. Engr.
- Watch Hill.**—Doane, Dr. W. H.; also, New York, N. Y.
- Westerly.**—Dock, Herman, Mech. Engr., U. S. Motor Co.
- Woonsocket.**—Carpenter, Ralph Emerson, Sales Mgr., Taft-Peirce Mfg. Co.
- Connolly, James H., Mech. Engr., Taft-Peirce Mfg. Co.

SOUTH CAROLINA

- Charleston.**—Barkley, Matthew B. (Junior), V. P., Cameron & Barkley Co., Genl. Asbestos & Rubber Co., 160 Meeting St.
 Wait, J. Russell, Mgr., Charleston Ore Co.
- Clemson College.**—Earle, Samuel Broadus, Dir. Engrg. Dept., Prof. Mech. Engrg., Clemson College.
- Greenville.**—Neale, William McCormick (Junior), Ch. Draftsman, Am. Mch. & Mfg. Co.
- Spartanburg.**—Ray, Walter Thornton, in Charge Engrg. Dept., Clinchfield Fuel Co.

SOUTH DAKOTA

- Vermillion.**—Davidson, Morgan W., Prof. Mech. Engrg., Univ. of S. D.

TENNESSEE

- Chattanooga.**—Catlin, Abel Delancy, V. P. and Wks. Mgr., The Wheland Co.
 Catlin, William Lyle (Junior), Supt., The Wheland Co.
 McClelland, Cory Chalmer (Junior), Engr., Tenn. Power Co., 1315 Hamilton Bank Bldg.; also, Findlay, O.
 Rigdon, Carl (Junior), Supt. Light and Power, Chattanooga Ry. & Light Co., 710 Market St.
 Sanders, Newell, Prop., Newell Sanders Plow Co.
- Johnson City.**—English, Harry K., Asst. to Pres., Carter Coal Co.; also, Coalwood, W. Va.
- Kingsport.**—Griffiths, Leonard L., Genl. Supt., Clinchfield Portland Cement Corp.
- Knoxville.**—Dwight, Ralph Wesley (Junior), Univ. of Tenn.
 Ferris, Charles Edward, Prof. Mech. Engrg. and Dean of Engrg., Univ. of Tenn.
 Jones, Forrest R., 1702 Melrose Pl.
 Switzer, John Albert, Prof. Hyd. Engrg., Univ. of Tenn., and Hyd. Engr., Tenn. State Geological Survey.
- Memphis.**—Allen, Thomas Hampton, Partner, Hoshall Simmons & Co., 90 S. Front St.
 Gladfelter, Herbert S. (Junior), Junior Engr., U. S. Engr. Office.
 Howell, Arthur Kemp (Junior), Sales Rep., Henry R. Worthington.
 York, Robert, V. P. and Treas., York Lumber & Mfg. Co., and V. P., Grant Lumber Co.
- Nashville.**—Allen, W. Harwell (Junior), Allen-Scales Engrg. Co., 930 Stahlman Bldg.
 Brown, Chas. S., Prof. Mech. Engrg., Vanderbilt Univ.
 Collier, Wm. H., Genl. Mgr., Marathon Motor Wks.
 Rooney, Martin Aloysius (Junior), Ch. Smoke Insp. of Nashville, City Hall.
- Richard City.**—Klein, William Henry (Junior), Supt., Dixie Portland Cement Co.
- Winchester.**—Brown, Hugh T., Stone Fort Power Co.

TEXAS

- Austin.**—Coffin, Trenmor (Junior), Instr. Elec. Engrg., in Charge of Shop Wk., Univ. of Tex.
- Beaumont.**—Kincade, Elmer C., Mech. Engr., Gulf Pipe Line Co.

TEXAS (Continued).**Canutillo.**—Whittier, Chas. Robert.**Cement.**—Avnsoe, Thorkild (Junior), Supt., Tex. Portland Cement Co.

Stancliff, Arthur D. (Junior), Mech. Engr., Tex. Portland Cement Co.

College Station.—Fermier, Emile J., Prof. Mech. Engrg., Agri. and Mech. College of Tex.

Smith, Harry E., Assoc. Prof. Mech. Engrg., Agri. and Mech. College of Tex.

Dallas.—Elrod, H. E., 905 Southwestern Life Bldg.

Gildehaus, Richard, Jr. (Junior), Supvg. Engr. in Tex., Anheuser-Busch of St. Louis, Mo., 722 Busch Bldg.

Jalonick, Hartwell (Junior), Tex. Power & Light Co., 1320 Commerce St.

Scott, Dr. Arthur Curtis, Pres., Scott Cons. Engrg. Co., 632 Wilson Bldg.

Shaw, Joseph D., Engr. and Contr., The Fountain-Shaw Engrg. Co., Southwestern Life Bldg.

Slater, F. R. (Junior), Genl. Supt., Tex. Power & Light Co., 1320 Commerce St.

El Paso.—Vandemoer, John, El Paso Smelter.**Fort Worth.**—Barrows, Lee Earl, The Tex. Co., Box 983.

Chester, C. P., Asst. Supt., Stone & Webster Engrg. Corp., 606 Flatiron Bldg.

Freeport, Brazoria Co.—Reynolds, Philip Edgar (Junior), Mech. Engr., Freeport Sulphur Co.**Galveston.**—Lawrence, Samuel Eugene (Junior), Junior Mech. Engr., U. S. Engrs. Dept., care U. S. Engrg. Office; also, Ft. Smith, Ark.**Houston.**—Crawford, Charles C., Jr. (Junior), Mgr. Houston Office, A. M. Lockett & Co., Ltd., Brazos Hotel Bldg.

Frost, Frank George, Res. Engr., Ford, Bacon & Davis, care of Houston Ltg. & Power Co.

Hartwell, Arthur Edward, Mech. Engr., Asst. Mgr. and Member Bd. of Dirs., Hartwell Iron Wks., P. O. Box 105.

Haskell, George O. (Junior), V. P., Fidelity Cotton Oil & Fertilizer Co.

Hildenbrand, Harry (Junior), Genl. Supt., The L. C. Ehle Oil Mills, P. O. Box 278.

Scott, Clarence N., V. P., Producers Oil Co.

Shaw, James C., 21 Savoy.

Westerfield, George Sumner (Junior), So. Mgr. and Dist. Mgr., Hooven, Owens, Rentscheler Co., Warren Webster & Co., 323 Chronicle Bldg., and 326 Hennen Bldg., New Orleans, La.

Zimmerman, Alfred William, Cons. Engr., P. O. Box 1494; also, Fort Wayne, Ind.

Mercedes.—Shaw, William Francis, Ch. Engr. and Genl. Mgr., Am. Rio Grande Land & Irrigation Co.**Port Arthur.**—Moran, Daniel James (Junior), Engr. in Charge, The Tex. Co.; also, Tulsa, Okla.

Smith, Frederick Crocker, Genl. Supt. Port Arthur Refinery, The Tex. Co.

San Antonio.—Peters, R. F., Ch. Mech. Draftsman M. P. Dept., San Antonio & Aransas Pass Ry. Co.

Tuttle, William B., V. P., San Antonio Gas & Elec. Co., V. P., San Antonio Traction Co., 305 Houston St.

TEXAS (Continued).

Texas City.—Chapman, Harry Burdett, Owner, Chapman Engrg. Co.

UTAH

Midvale.—Anderson, Leslie Douglass, Supt., U. S. Smelting Co.
Provo.—Nunn, P. N.

Salt Lake City.—Beckstrand, Elias H., Prof. Mech. Engrg., Univ. of Utah.

Cheever, Markham, Engr., Utah Power & Light Co.

Davoud, Vahram Y., Elec. and Mech. Engr., Utah Power & Light Co.

Jennens, Arthur E. (Junior), Constr. Foreman, Phoenix Constr. Co., Kearns Bldg.

Lowe, Raymond Manley, Ch. Draftsman, Kelly Filter Press Co., 210 Felt Bldg.

McAllister, Daniel Handley, Constr. Supt., Utah Power & Light Co., Kearns Bldg.

Waddell, George F., Genl. Mgr., Ohio Copper Co., Newhouse Bldg., P. O. Box 1167.

Wraith, William, Internatl. Smelting & Refining Co., Kearns Bldg., P. O. Box 1167.

Tooele.—Sicka, Louis Theodore, Mech. Supt., Tooele Plant, Internatl. Smelting & Refining Co.

VERMONT

Bennington.—Beach, Charles S. (Junior), Designer and Machinist, 745 Main St.

Burlington.—Robinson, Edward, Prof. Mech. Engrg., Univ. of Vt.

Middlebury.—Barnes, Arthur F. (Junior), Asst. Prof. Engrg., Middlebury College.

Proctor.—Proctor, Redfield, Asst. Genl. Supt., Vt. Marble Co.

Rutland.—Montgomery, Hugh, Rutland R. R. Co.

Steward, George Henry, Charge of Designing and Supt. Constr. of Mchs., L. & J. A. Steward.

White, Edward F., Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants, Pres., Rutland Mfg. Co.

St. Johnsbury.—Bousfield, Alfred, Ch. Engr., E. & T. Fairbanks Co.

Sheldon Springs.—Raymond, Herbert Emmons (Junior), Mech. Engr.

South Shaftsbury.—Cole, L. W., Cons. Engr., Eagle Sq. Mfg. Co.

Springfield.—Bryant, William L., Pres., Bryant Chucking Grind-er Co.

Fellows, Edwin R., Mgr., The Fellows Gear Shaper Co.

Flanders, Ralph E., Mgr. of Fay Lathe, Jones & Lamson Mch. Co.

Hartness, James, Pres., Jones & Lamson Mch. Co.

Moore, Edmund Burke (Junior), Engrg. Rep., Jones & Lamson Mch. Co.

Perry, George Arthur, Mech. Engr., Jones & Lamson Mch. Co.

Slomer, Wm. Frederick, Engr. Rep., The Fellows Gear Shaper Co.; also, Detroit, Mich.

Woolson, Wm. D., Treas., Jones & Lamson Mch. Co.

Vergennes.—Videto, Theodore N. (Junior).

Westminster Sta.—Parkhurst, Harleigh, Pres., Abenague Mch. Wks.

Windsor.—Gridley, George O., V. P. and Genl. Mgr., Windsor Mch. Co.

VIRGINIA

- Blacksburg.**—Johnson, John S. A., Prof. Exper. Engrg., Va. Poly. Inst.
 Randolph, L. S., Cons. Engr., Dean Engrg. Dept., Va. Poly. Inst.
- Charlottesville.**—Thornton, Wm. Mynn, Prof. Applied Mathematics and Dean Dept. of Engrg., Univ. of Va.
- Fontella.**—von Ammon, Siegfried.
- Fordwick.**—Hawn, Russell John, Mgr., Va. Portland Cement Co.
- Lynchburg.**—Wiley, Edgar C., Cons. Engr., Wiley & Wilson, Peoples Natl. Bank Bldg.
- Newport News.**—Berrian, Henry C. (Junior), Engrg. Dept. Estimating Div., Newport News Shipbuilding & Dry Dock Co.
 Dillard, Capt. James B., Insp. of Ordnance, U. S. A., care of Newport News Shipbuilding & Dry Dock Co.
 Ross, Taylor W. (Junior), Supt. Repairs and Docks, Newport News Shipbuilding & Dry Dock Co.*
- Norfolk.**—Breese, Charles P., Second V. P., J. R. Young Fertilizer Co., Inc., 200 Citizens Bank Bldg.
 Stanbrough, Duncan G., Asst. Shop Supt., U. S. Navy Yard.
 Wilson, Lester G., Mgr. of Factory, Norfolk, Va., 502 Mowbray Arch; also, Secy. and Engr., Jas. G. Wilson Mfg. Co., New York, N. Y.
- Portsmouth.**—Serbell, Carl Victor (Junior), Ch. Engr., Portsmouth Cotton Oil Refining Corp.
- Richmond.**—Archer, Edward R., Ch. Engr., Tredegar Co.
 Bocorselski, F. E., Asst. Mech. Supt., Am. Loco. Co.
 Cameron, Barton H., Pres., Cameron Stove Co., Box 635.
 Elder, Hugh M., Genl. Power Engr., Am. Loco. Co.
 Hilgartner, George Henry, Export Leaf Tobacco Co.
 Johnston, James Ambler (Junior), Engr., Cameal & Johnston, 707 Chamber of Commerce Bldg.
 Roelker, Carl J., Cons. Engr., State Bank Bldg.
 Scarborough, Francis Winthrop, Cons. Engr., 513 Travelers Bldg.
 Scrivenor, Arthur, Cons. and Constr. Engr., Scrivenor & Sullivan, Power Bldg.
 Walsh, James F., Mech. Expt., 2024 Monument Ave.
 Willis, Edward J., Prop., Richmond Elec. Wks., P. O. Box 416.
- Roanoke.**—Kearney, Alex, Asst. Supt. M. P., Norfolk & West. Ry.
 Pilcher, John A., Mech. Engr., Norfolk & West. Ry. Co.
 Quinn, Charles Henry, Asst Engr. M. P., Norfolk & West. R. Co.
 Wallis, Philip, Hotel Roanoke.
- Rock Castle.**—Niles, Francis H., Dungeness Farm.
- Saltville.**—Crute, William Rowzie (Junior), Asst. M. M., Mathieson Alkali Wks.
 McCrary, John Adger, Draftsman and Asst. to Genl. Supt., The Mathieson Alkali Wks.
 Mount, Wm. Dye, Genl. Mgr., Mathieson Alkali Wks.
- Williamsburg.**—Bechtel, John Adams.

WASHINGTON

- Puget Sound.**—Reed, James, U. S. Navy Yard.
- Pullman.**—Martin, Mack, Dept. Mech. Engrg., Wash. State College.

WASHINGTON (Continued).

- Seattle.**—Allen, William Duncan, Cons. Engr., Htg. and Vent., 605 Peoples Savings Bank Bldg.
 Bailey, T. S., Pacific Coast Mgr., Elec. Boat Co.
 Beecher, Henry Ward (Junior), Mgr. Seattle Office, Chas. C. Moore & Co., 618 Mut. Life Bldg.
 Bushnell, Leonard T. (Junior), Secy. and Treas., Rockwood Sprinkler Co., 208 Columbia St.
 Dyer, Robt. M., V. P. and Treas., Puget Sound Bridge & Dredging Co., 432-441 Central Bldg.
 Frink, Francis G., Secy., Wash. Iron Wks.
 Frink, Gerald, V. P. and Mgr., Wash. Iron Wks.
 Hale, Robert M., Cons. Engr., White Bldg.; also, Vancouver, B. C., Canada.
 Heffernan, John T., Pres. and Mgr., Heffernan Eng. Wks., 108 Railroad Ave.
 Hiles, A. Lionel, Ch. Engr. Hoisting and Min. Eng. Dept., Wash. Iron Wks.
 Macintire, Horace J., Asst. Prof. Mech. Engrg., Univ. of Wash.
 Moses, Lucius L., Hallidie Mch. Co.
 Paterson, James Venn, Pres. and Genl. Mgr., Seattle Constr. & Dry Dock Co.
 Rodgers, Myron Knox, Min. Engr., P. O. Box 825.
 Scott, J. Alvah, Supt., Seattle Constr. & Dry Dock Co.
 Sumner, Henry W., 2951 First Ave., S.
 Weber, Erwin L. F. (Junior), Engr., Design of Elec., Mech. and Sanitary Equip. of Bldgs., 723-724 Northern Bank Bldg.
 Willette, Charles William, Cons. and Constr. Engr., Power Plants and Mch., Lock Box 156.
 Wilson, Geo. Samuel (Junior), Asst. Prof. Mech. Engrg., Wash. Univ.

Spokane.—Carpenter, Charles Irving (Junior), Head Dept. of Manual Arts, Spokane Public Schs., Box 2103; also, Chicago, Ill.

- Fawcett, Wallace H. (Junior), 1002 Old Natl. Bank Bldg.
 Green, Chas. Henry (Junior), Cons. Engr., 525 Paulsen Bldg.
 Miller, Herman Gottlieb, Directing Mech. and Refrigerating Engr., Armstrong Ice Mch. Co., 3201 E. Riverside Ave.
 Russell, Foster (Junior), Agt. Commer. Dept., Wash. Water Power Co.

Wilbur, Ralston Thornton, Cons. Mech. Engr., P. O. Box 566.

Tacoma.—Ord, Henry C., 29 St. Helms Ave.

Walla Walla.—Ferguson, W. Craig (Junior), V. P., Treas. and Asst. Mgr., Walla Walla Iron Wks.

Hunt, Eugene Alexander (Junior), Treas. and Genl. Mgr., The Gilbert Hunt Co.

WEST VIRGINIA

Charleston.—Morgan, John T. (Junior), Dist. Sales Agt., The Ohio Brass Co., 1503 Virginia St.

Ward, Charles, Cons. Engr., Charles Ward Engrg. Wks.

Ward, Charles E., Pres. and Genl. Mgr., Charles Ward Engrg. Wks.

Clarksburg.—Cooper, Howell Carnaghan, 667 Mulberry St.

Glen Ferris.—Hamilton, John Donald (Junior), Mech. Engr., Electro Metallurgical Co.

WEST VIRGINIA (Continued).

Morgantown.—Church, Edwin Fayette, Jr., Prof. Mch. Design and Constr., W. Va. Univ.

Emory, Frederick L., Prof. Mechanics and Applied Mathematics, W. Va. Univ.

Jones, Clement R., Dean College of Engrg., Prof. Steam and Exper. Engrg., W. Va. Univ.

Parkersburg.—Miller, Frank Louis, Ch. Engr., Parkersburg Mch. Co.

Wheeling.—Adgate, Frederick Whitney, West. Mgr., The Foundation Co.

Browne, Frank Atwood, Asst. Engr., Isthmian Canal Com., P. O. Box 218.

Haney, James Briggs (Junior), Designer, Wheeling Mold & Fdy. Co.

Scott, Walter G. (Junior), Wheeling Mold & Fdy. Co.

Thomson, Francis du Pont, Cons. Engr., Wheeling Mold & Fdy. Co.

WISCONSIN

Appleton.—Fannon, Wm. A., V. P. and Mgr., Inter Lake Pulp & Paper Co.

Beloit.—Bachelder, Joseph Elmer (Junior), Mgr. Steam Pump Mfg. Dept., Fairbanks, Morse Mfg. Co.

Hobart, Frank G., Ch. Engr., Fairbanks, Morse Mfg. Co.

Mitchell, Charles J., Ch. Draftsman, Fairbanks, Morse Mfg. Co.

Townsend, Roy C. (Junior), Designer, Fairbanks Morse Co.

Cudahy.—Bernhard, Richard (Junior), Ch. Engr. Min., Crushing and Cement Mchy. Dept., Power & Min. Mchy. Co.

Hutchens, Edward, Mech. Supt., Federal Rubber Mfg. Co.

Weimer, Hugo W. (Junior), Engr. Min. and Smelting Sales Dept., Power & Min. Mchy. Co.

De Pere.—Brown, James Monroe, Supt., Lyons Boiler Wks.

Grand Rapids.—Ackerman, George Ernest, Genl. Engrg. and Contracting, Jacobson & Ackerman, Archs. and Engrs.

Janesville.—Mills, Wallace Chamberlain (Junior), Inspr. of Constr., City of Janesville.

La Crosse.—Funk, Wm. Francis, Secy., La Crosse Boiler Co., Gould and Mill Sts.

Hirshheimer, Harry Julius, V. P., La Crosse Plow Co.

Madison.—Beebe, Murray Charles, Prof. Elec. Engrg., Univ. of Wis.

Christie, Alexander G., Assoc. Prof. Steam Engrg., Univ. of Wis.

Corp, Chas. I. (Junior), Asst. Prof. Hyd. Engrg., Univ. of Wis.

Du Priest, John Randolph, Univ. of Wis.

Freeman, William James, Member of Firm, Sloan Huddle Feustel & Freeman.

Goddard, Arthur L., Supt. of Shops, Univ. of Wis.

Gore, Warren W., Ch. Engr., Fuller & Johnson Mfg. Co.

Johnson, Carl Albert, Pres., Gisholt Mch. Co.

Johnson, Hobart Stanley, V. P. and Genl. Supt., Gisholt Mch. Co.

Keown, Robert McArdle, Asst. Prof. Mch. Design, Univ. of Wis.

McMillan, Luther Burchard (Junior), Fellow in Mech. Engrg., Univ. of Wis.; also, Anchor, Tex.

WISCONSIN, Madison (Continued).

McMullen, Cornelius L. (Junior), Fuller & Johnson Mfg. Co.
Mack, John G. D., Prof. Mch. Design, College of Engrg., Univ.
of Wis.

Mead, Daniel W., Prof. Hyd. and Sanitary Engrg., Univ. of
Wis., Cons. Engr., 530 State St.

Read, B. K. (Junior), Instr., Univ. of Wis.

Reber, Louis E., Dean Univ. Extension Div., Univ. of Wis.

Thorkelson, Halsten Joseph, Prof. Steam Engrg., Univ. of Wis.

Trumpy, Sverre, Mech. Engr., Gisholt Mch. Co.

White, John Culbertson, Cons. Steam and Ch. Operating Engr.,
Capitol Power Plant.

Menasha.—Hargrave, Russell William (Junior), Cons. Engr.,
Box 23.**Milwaukee.**—Barnum, Thomas Edson, Ch. Engr., Cutler-Ham-
mer Mfg. Co.

Bean, Irving McC. (Junior), Pres., Milwaukee Boiler Co., 629
Wells Bldg.

Beck, Matthias A., 294 Greenbush St.

Berresford, Arthur W., V. P. and Genl. Mgr., The Cutler-
Hammer Mfg. Co.

Bird, John D., Genl. Mgr., Power & Min. Mchy. Co., and In-
ternatl. Gas Eng. Co.

Birkenhorn, George Stevens, Mech. Engr., Allis-Chalmers
Mfg. Co.

Bolles, Frank G., Commer. Agt., Dept. of Commerce of Wash-
ington, D. C., 2447 Sycamore St.

Bossert, Chas. Philip, Mech. Engr., Pfister & Vogel Leather
Co.

Brown, Rezeau Blanchard, Genl. Mgr. and Ch. Engr., Milwau-
kee Gas Light Co., 182 Wisconsin St.

Cheney, H. W., Engr. Elec. Dept., Allis-Chalmers Co.

Classen, Edward Heil (Junior), The Am. Appraisal Co.

Colles, Geo. Wetmore, Cons. Elec. and Mech. Engr., and Pat.
Expt., 404-405 Alhambra Bldg.

Conrad, Hugh Vincent, Natl. Brake & Elec. Co.

Conway, Geo. M., Cons. Engr. and Expt., Rm. 38, 204 Grand
Ave.

Cooley, Hugh Nelson, 3414 Cedar St.

Dahlstrand, Hans, Mech. Engr., Steam Turbine Engrg. Dept.,
Allis-Chalmers Mfg. Co.

Day, Percy Crundall, Engr. and Mgr. Helical Gear Dept., The
Falk Co.

Dorner, Frederick Harry, Mech. Engr., 716 Prospect Ave.

Dravo, Geo. P., Pres., Power Improvement Co., 510 Enterprise
Bldg.

Erschine, John Stevenson (Junior), Asst. Ch. Engr., Internatl.
Harvester Co.

Geerlings, Henry John, Asst. to Mech. Engr., Pfister & Vogel
Leather Co.

Gerry, Edward Murray, Commer. Elec. Engr., Allis-Chalmers
Co.

Greenwall, Walter L., Ch. Draftsman, Nordberg Mfg. Co.

Haddock, Edwin J., Ch. Engr., Smith Engrg. Wks.

Hebberd, Loren Loomis (Junior), Mech. Engr., Vaughn, Mey-
er & Sweet, 1007 Majestic Bldg.

Henderson, Clark T., Elec. and Mech. Engr., The Cutler Ham-
mer Mfg. Co.

WISCONSIN, Milwaukee (Continued).

- Holl, Chas. L. (Junior), Jos. Schlitz Brewing Co.; also, Streator, Ill.
- Housum, Chenoweth, Allis-Chalmers Co.
- Johnson, Paul F., Secy. and Treas., Johnson Service Co.
- Kearney, Edward J., Kearney & Trecker Co.
- Kollberg, Gustaf Leonard, Engr. Pumping Eng. Dept., Allis-Chalmers Co.
- Kremer, Waldemar Rudolph, Adv. Mech., Elec. and Refrigerating Engr., The Vilter Mfg. Co., 872 Clinton St.
- Lathrop, William Frederic (Junior), Asst. to Ch. Engr. of Power Plant, The Milwaukee Elec. Ry. & Ltg. Co., 316 Pub. Service Bldg.
- Lindemann, August Schaper, Mgr. and Genl. Supt., Milwaukee-Waukesha Brewing Co.
- Lindemann, Walter Carl, Ch. Engr. and Asst. Supt., A. J. Lindemann & Hoverson Co.
- McDewell, Horatio S. (Junior), Gas Eng. Erecting Engr., Allis-Chalmers Co.; also, New York, N. Y.
- McKee, Robert A., Mgr. and Ch. Engr. Steam Turbine Dept., Allis-Chalmers Co.
- Magin, Frank W. (Junior), Genl. Mgr. and Secy., Independent Elec. Mfg. Co.
- Maurer, John D., Ch. Engr., Ill. Steel Co., Milwaukee Wks.
- Michel, Frederik Adolf (Junior), Ch. Draftsman, Milwaukee Bridge Co.
- Nordberg, Bruno Victor, Pres. and Ch. Engr., Nordberg Mfg. Co.
- O'Neil, Frederick Wm., Mgr. of Sales, Nordberg Mfg. Co.
- Packard, Horace Nelson (Junior), Engr., Cutler Hammer Mfg. Co.
- Patitz, J. F. Max, Cons. Mech. Engr., Allis-Chalmers Mfg. Co.
- Peterson, John William, 122 Reservoir Ave.
- Pfau, Arnold, Cons. Engr., Allis-Chalmers Mfg. Co.
- Pierpont, R., Factory Mgr., Wis. Motor Mfg. Co.
- Powell, William Henry, Elec. Engr. in Charge, Allis-Chalmers Co.
- Prescott, Fred. M., Pres., Fred. M. Prescott Steam Pump Co., 60th and Greenfield Aves.
- Reynolds, Irving H., Mgr. Eng. Dept., Allis-Chalmers Mfg. Co.
- Robinson, Rhea Hamilton, Asst. Supt. Milwaukee Wks. Internatl. Harvester Co.
- Sando, Will J., Cons. Engr., Milwaukee Club.
- Sederholm, E. T., Asst. Ch. Engr., Nordberg Mfg. Co.
- Shadall, Charles Edward, Mech. Engr. and Designer, Nordberg Mfg. Co.
- Shodron, John Geo. (Junior), Cons. Engr. and Arch., 220 Burrell St.
- Simon, Arthur, Elec. Engr., Cutler Hammer Mfg. Co.
- Sprado, Carl G., Engr. in Charge Gas and Blowing Eng. Dept., Allis-Chalmers Co.
- Strothman, Louis E., Mgr. and Ch. Engr. Pumping Eng. Dept., Allis-Chalmers Mfg. Co.
- Sweet, Franklin, 285 Farwell Ave.
- Thorpe, Joel Rex (Junior), Asst. Engr., Allis-Chalmers Mfg. Co.
- Tribe, James, Allis-Chalmers Co.

WISCONSIN, Milwaukee (Continued).

- Uihlein, William B. (Junior), Genl. Supt., Jos. Schlitz Brewing Co.
- Vogt, Robert Friedrich, Mech. Engr. Cons. Engrg. Dept., Allis-Chalmers Mfg. Co.
- Warg, Robert, Natl. Blower Wks., 17th St. and St. Paul Ave.
- Wehner, Lewis, Engr., Pawling & Harnischfeger Co., 38th St. and National Ave.
- Weickel, Henry, Ch. Engr., Pawling & Harnischfeger Co., 38th St. and National Ave.
- Wetmore, Charles P., Genl. Supt., Dial Cash Register Co., 409-415 Third St.
- White, Wm. M., Mgr. and Ch. Engr. Hyd. Dept., Allis-Chalmers Co.
- Whittemore, D. J., Cons. Engr., C. M. & St. P. Ry. Co., 222 Biddle St.
- Wilson, James, Mech. Engr. Steam Turbine Dept., Allis-Chalmers Mfg. Co.
- Wintzer, Rudolph, 685 Farwell Ave.
- Woody, Guy Vimont (Junior), Mech. Engr., Allis-Chalmers Co.
- Worden, Euclid P., Mgr., Fred. M. Prescott Steam Pump Co.
- Wyman, Arthur H. (Junior), Sales and Estimating Engr., Allis-Chalmers Co.
- Young, William A., Ch. Draftsman, Pawling & Harnischfeger Co.
- North Fond du Lac.**—Kipp, Alfred Ristine, Mech. Supt., Soo Line.
- Oshkosh.**—Elliott, Ben. G. (Junior), Univ. Extension Div., Univ. of Wis.
- Monahan, Louis J., Mech. Engr., Termaat & Monahan Co.
- Platteville.**—Kimball, Clinton, Mech. Engr., Vinegar Hill Zinc Co.
- Racine.**—Burgess, Edward W. (Junior), Engrg. Dept., J. I. Case Threshing Mch. Co.
- De Lamater, Oakley R., Supt., L. P. C. Motor Co.; also, Englewood, N. J.
- Hamilton, Clinton A., Pres., Racine Mfg. Co.
- Kastler, Edward Louis (Junior), Mech. Engr., 1824 College Ave.
- MacGregor, Wallace F. (Junior), Supt. Exper. Dept., J. I. Case Threshing Mch. Co.
- Uihlein, Herman A. (Junior), Pres. and Genl. Mgr., The Lavigne Gear Co.
- South Milwaukee.**—Coleman, William Wheeler, Pres., Bucyrus Co.
- Ferris, Walter, Ch. Engr., Bucyrus Co.
- Massey, Geo. Bragg, 2d (Junior), Mgr. Foreign Sales, Bucyrus Co.
- Roys, Lawrence (Junior), Supt. Outside Constr., Bucyrus Co.
- Waukesha.**—Horning, Harry L., Secy. and Genl. Mgr., Waukesha Motor Co.
- West Allis.**—Andersson, Pelle, Mech. Engr., Allis-Chalmers Mfg. Co.
- Frank, Edwin (Junior), Hyd. Dept., Allis-Chalmers Mfg. Co.
- Hunt, Paul Benson (Junior), Draftsman, Allis-Chalmers Mfg. Co.

WISCONSIN, West Allis (Continued).

- McKinnon, William R. (Junior), Hyd. Dept., Allis-Chalmers Co.
 Meharg, Laurence (Junior), Estimator, Allis-Chalmers Co.
 Search, Charles Edwin, Genl. Mgr. of Wks., Allis-Chalmers Mfg. Co.
 Smith, L. P. C. (Junior), Ch. Draftsman Gas Eng. Dept., Allis-Chalmers Co.

WYOMING

- Laramie.**—Carey, Herbert Wood (Junior), Ch. Asst. Engr., Laramie Water Co.
 Hoefler, Elmer Geo., Head Dept. Mech. and Elec. Engrg., Univ. of Wyo.

FOREIGN COUNTRIES**AFRICA**

- Bulawayo, Rhodesia, South Africa.**—Carter, Wm. A., Contr. and Consultant, Gifford House.
Gold Coast Colony, West Africa.—Blakeslee, Frank Arthur, Ch. Mech. Engr., Ashanti Goldfields, Obuasi.
Graaff Reinet, South Africa.—Williams, Edwin Hawkins, Partner, Williams & Coy, Gem Garage.
Johannesburg, Transvaal, South Africa.—Bateman, Edward L., Mgr. for S. A. Allis-Chalmers Co., Box 6659.
 Blanchard, Henry Willby, Mgr. Austral Iron Wks., E. W. Tarry Co., Ltd., P. O. Box 1098.
 Bulkley, J. Norman, Cons. Elec. Engr., Genl. Min. & Finance Corp.
 Cook, J. F., Cons. Mech. Engr., S. Neumann & Co., and The Consltd. Mines Selection Co., Ltd., 54 Cullinan Bldg.
 Farrar, Edward, Cons. Mech. Engr., Genl. Min. & Finance Corp.
 Orr, John, Prof. of Engrg., S. A. Sch. of Mines and Tech., P. O. Box 1176.
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 Vaughan, John Alfred, Ch. Insp. Mchy., Box 1132.
Kimberly, Cape Colony, South Africa.—Williams, Alpheus Fuller, Genl. Mgr., De Beers Consltd. Mines, Ltd.
Muhorini, British East Africa.—Penruddocke, J. H., Mech. Engr., Farm 1464.

AUSTRALIA

- Brisbane.**—Palmer, Arthur C. H., Asst. Engr., Queensland Ry.
Cairns, North Queensland.—Hartill-Law, A., Phoenix Fdy. & Eng. Wks., Spence St.
Castlemaine, Victoria.—Dam, William Valdemar, Genl. Mgr., Thompson & Co.
 Henry, Jos. S., Genl. Mgr., Adelong Gold Estates, Cons. Engr., Adelong Ck. Dredging Co.
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AUSTRALIA (Continued).

- Melbourne, Victoria.**—Gray, John Lamont, Gray Bros.
 Noyes, Henry, Governing Dir., Noyes Bros., Ltd., 499-501
 Bourke St.
- Sydney, N. S. W.**—Price, Norman I. (Junior), Price & Martyn,
 68½ Pitt St.
- Strauss, Julian B., Partner, Sachs, Strauss & Co., Bulletin
 Place 2.

AUSTRIA

- Troppau.**—Kothny, Gott dank Lebrecht, Parkstr. 80.
- Wiener-Neustadt.**—Arbogast, Victor R., Wks. Mgr., Natl. Radi-
 ator Gesellschaft, Postfach 95.
- Witkowitz.**—Eyermann, Peter, Engr. of Constr., Witkowitz Steel
 Wks.

BELGIUM

- Brussels.**—Messenger, Robert P., Asst. to Mgr. European Exper.
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 du Congrès.
- Vander Willigen, T. A., Rep., Humphreys & Glasgow, Ltd.,
 209 Chaussée d'Ixelles.
- Zimmerman, Oliver B., Advisory Engr., Internatl. Harvester
 Corp., 11-13 Rue d'Arenberg.
- Ghent.**—Baker, Dickerson G., Dir. Genl. Fabrication, Carels
 Frères.
- Liege.**—Hubert, Herman, Inst. de Mecanique, Blvd. de la Con-
 stitution.

CANADA

- Amherst, Nova Scotia.**—Robb, A. G., Ch. Engr., Internatl. Engrg.
 Wks.
- Calgary, Alberta.**—Keller, Wm. H. (Junior), 1625 29th Ave., W.
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 R. Dept. of Natural Resources; also, New York, N. Y.
- Copper Cliff, Ontario.**—Nordin, Arvid, Ch. Draftsman, The Cana-
 dian Copper Co.
- Slaughter, Benjamin Gabriel, Jr., V. P., The Canadian Copper
 Co.
- Stenbol, Carl, Smelter Engr., Canadian Copper Co.
- Dundas, Ontario.**—Williams, George W., Mgr., Chapman Eng. &
 Mfg. Co.
- Edmonton, Alberta.**—Libby, Malcolm, P. O. Box 235.
- Fraserville, Quebec.**—Warren, Kenneth L., Cons. Engr.
- Galt, Ontario.**—Goldie, Alexander R. (Junior), Mgr., Goldie &
 McCulloch Co., Ltd.
- Spotton, Arthur Knowlson (Junior), Ch. Engr., Goldie & Mc-
 Culloch Co., Ltd.
- Glace Bay, Nova Scotia.**—Whyte, John S., Mech. Engr., Dominion
 Coal Co., Ltd.
- Halifax, Nova Scotia.**—Ayars, William Stewart, Prof. Mech. and
 Elec. Engr., Nova Scotia Tech. College.

CANADA (Continued).

Hamilton, Ontario.—Hawkins, Wm. Clark (Junior), Managing Dir. and Secy., Dominion Power & Transmission Co., Ltd.
Lattin, Judson, M. M., Internatl. Harvester Co. of Canada, Ltd.
McDowell, Edward C., Mech. Engr., Natl. Steel Car Co., Ltd.
Smart, Richard Addison, Canadian Home Land Co., Ltd., Bank of Hamilton Bldg.; also, Lafayette, Ind.
Tiplady, John T., Canadian Westinghouse Co.

Kingston, Ontario.—Gill, Lester W., Prof. Elec. Engrg., Queen's Univ.

Willhafft, F. O., Prof. Mech. Engrg., Queen's Univ.

Lethbridge, Alberta.—Magrath, Charles Bolton (Junior), The Lethbridge Iron Works, Ltd.

London, Ontario.—Cariss, Carington Carysfort (Junior), Ch. Draftsman, E. Leonard & Sons, Ltd.

Leonard, E. Ibbotson (Junior), V. P., E. Leonard & Sons, Ltd.

Moncton, New Brunswick.—Joughins, George Robert, Supt. Rolling Stock, Canadian Government Rys.

Montreal, Quebec.—Atwood, William S., Ch. Engr., Canadian Car & Fdy. Co., Ltd., and Canadian Steel Foundries, Ltd., Transportation Bldg.

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Vaughan, Henry H., Asst. to V. P., Canadian Pacific Ry.

CANADA, Montreal, Quebec (Continued).

- Winterrowd, William H. (Junior), Mech. Engr., Canadian Pacific Ry.
- York, John James, Ch. Engrg., St. Lawrence Sugar Refining Co.
- New Glasgow, Nova Scotia.**—Matheson, Wm. G., Mgr., I. Matheson & Co., Ltd.
- Nickelton, Ontario.**—Deacon, Ralph Woolman, Metallurgical Supt., British America Nickel Corp., Ltd.
- Ottawa, Ontario.**—Hodgins, George S., Asst. Engr., Natl. Transcontinental Ry.
- Paris, Ontario.**—McFarlane, George William, Ch. Engr., Penmans, Ltd.
- Peterboro, Ontario.**—Sangster, William, Mech. Engr., De Laval Dairy Supply Co., Ltd.
- Pont Rouge, Quebec.**—Armes, William Addison, Supt. and Res. Engr., Bird & Son; also, Norwood, Mass.
- Quebec, Quebec.**—Ross, Sir Charles Henry A. F. L., Pres., Ross Rifle Co.
- St. Catharines, Ontario.**—Hamilton, Ralph B., Pres. and Genl. Mgr., The Packard Elec. Co., Ltd.
- Jones, Ellis Henry, Asst. Genl. Supt., Canadian Yale & Towne, Ltd.
- Kelman, John H., Wks. Mgr., The Canadian Crocker-Wheeler Co., Ltd.
- Sault Ste Marie, Ontario.**—Speer, Chas. Henry, Ch. Engr., Algoma Steel Corp.
- Sherbrooke, Quebec.**—Haight, Harry Vercoe, Ch. Engr., Canadian Ingersoll-Rand Co., Ltd.
- Sangster, Andrew, Supt., Canadian Ingersoll-Rand Co.
- Stellarton, Nova Scotia.**—Evans, Cadwallader, Jr., Genl. Mgr., Acadia Coal Co., Ltd.
- Sudbury, Ontario.**—Elliott, Elmer G., Mech. Engr., British America Nickel Corp., Box 707; also, Oakland, Cal.
- Sydney, Nova Scotia.**—Graham, William Harvey, Mech. Supt., N. S. Steel & Coal Co., Ltd.
- Timmins, Ontario.**—Robbins, Percy Arthur, Genl. Mgr., Canadian Min. & Finance Co.
- Toronto, Ontario.**—Ahara, George Victor, Mech. Engr., The Canadian Fairbanks-Morse Co., Ltd.
- Angus, Robert, Cons. Engr., 47 King St., W.
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- Clark, Farley Granger, Ch. Engr., Toronto Power Co., Toronto Elec. Light Co., Toronto St. Ry. Co.
- Fabens, Andrew Lawrie (Junior), Supt., No. Aluminum Co., Ltd., Sterling Rd.
- Fletemeyer, Louis H. (Junior), Sales Dept., A. R. Williams Mch. Co., Ltd.
- Fritz, Aimé, L. G. (Junior), Engr., Charge Constr., Toronto Elec. Light Co., 12 Adelaide St., E.
- Graburn, Arthur Lynne, Mech. Engr., Canadian No. Ry.
- Hamilton, Chester B., Jr. (Junior), Mgr., Hamilton Gear & Mch. Co.
- Hudson, Frederick W., Mech. Dept., Toronto & York Radial Ry. Co.
- Lane, Leon Kendall, Supt., Fairbanks-Morse Canadian Mfg. Co., 1379 Bloor St., W.

CANADA, Toronto, Ontario (Continued).

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- Moody, Frederick Hayward (Junior), Mech. Editor, Canadian Railway and Marine World, 70 Bond St.
- Osborne, G. F. F., Box 84, Genl. P. O.
- Robinson, Walter P., Sales Engr., No. Crane Wks., Ltd., and The Elec. Controller & Mfg. Co., 1222 Traders Bank Bldg.
- Scollan, John Joseph, Genl. Supt., Canada Fdy. Co., Ltd.
- Sowden, Parkin T. (Junior), Mgr., Stand. Silver Co., Ltd., N. Madison Ave.
- Spencer, C. G., Mech. Engr., Toronto Power Co., 12 Adelaide St., E.; also, Springfield, Mass.
- van derWerff, John N., Engr. Constr. Dept., Toronto Elec. Light Co., 12 Adelaide St., E.; also, Dormont, Pa.
- Watkins, Frank Elias, The Canadian Fairbanks-Morse Co., Ltd., 1379 W. Bloor St.
- Watts, Geo. W., Wks. Mgr., Canadian Genl. Elec. Co., 212 King St.
- Vancouver, B. C.**—Bayfield, Henry Arthur, Mech. Engr., 1154 Pacific St.
- Conway, George R. G., Ch. Engr., British Columbia Elec. Ry. Co., Ltd.
- Day, Paul, Treas., Federal Lumber Co., 920-921 Rogers Bldg.
- Victoria, B. C.**—Sawford, Frank, Elec. Engr., Canadian Collieries (Dunsmuir), Ltd.
- Walkerville, Ontario.**—Sibley, Mark M., Mech. Engr., Wilt Twist Drill Co.; also, Detroit, Mich.
- West Toronto, Ontario.**—Burt, Clayton R., Factory Mgr., Russell Motor Car Co., Ltd.
- Winnipeg, Manitoba.**—Brinkerhoff, Harry A., Engr. in Charge, Westinghouse Church Kerr & Co., 611 Confederation Life Bldg.
- DeLamater, Van Ness, Dept. of Power Plants, Valves and Steam Goods, Canadian Fairbanks Morse Co.
- Spidy, Edgar Thomas (Junior), Asst. to Genl. Foreman, Canadian Pacific Ry.

CENTRAL AMERICA

- San Jose, Costa Rica.**—Purdy, Henry T., Mgr., Purdy Engrg. Co.

CHANNEL ISLANDS

- St. Aubin, Jersey.**—Robeson, Anthony Maurice, "Beauvoir."

CHINA

- Hongkong.**—Cox, Frederick W., Engrg. Salesman, Shewan Tomes & Co.
- Lincheng, North China.**—Kwang, Kwong Yung, Dir. and Engr., Lincheng Mines, via Peking.
- Tientsin, North China.**—Sze, S. C. Thomas (Junior), Asst. Genl. Mgr., Kailan Min. Administration.

CUBA

- Ensenada de Mora.**—Stuntz, J. E. (Junior), Supt., Cape Cruz Co.
- Havana.**—Dearborn, Wm. Langdon (Junior), Res. Engr., Barclay, Parsons & Klapp, Port of Havana Docks Co., Apartado 1289.
- Durant, Aldrich, Res. Engr., MacArthur Perks & Co., Ltd., San Francisco Pier.
- Estrada, E. Duque, Ch. Engr., Div. of Shops and Mchy., Maestranza.
- Lee, Wallace Rodgers, Rep., The Baldwin Loco. Wks., Natl. Bank Bldg.
- Miller, Edward G., Miller Bros., Teniente Rey 14, Apartado 271.
- Miller, Elmo J., Member of Firm, Miller Bros., Apartado 271.
- Ulbricht, T. Carlile, Havana Elec. Ry., Light & Power Co.
- Mantanzas.**—Polledo, Y. (Junior), Manzaneda 16.
- San Agustin, Caibarien.**—Pelly, Lorenzo J., Ch. Engr., Central San Agustin.
- Victoria de las Tunas.**—Estrada, Rafael, Central Manati, P. O. Box 26.

DUTCH EAST INDIES

- Medan, O. K., Sumatra.**—Wilkie, Donald Cook, Mgr. Engrg. Dept., Behn, Meyer & Co., Ltd.

ENGLAND

- Birmingham.**—Harris, James Wilfrid, Dir., Alfred Wiseman, Ltd.
- Orcutt, Harry Fred Lee, Managing Dir., Gear Grinding Co., Ltd., Handsworth.
- Coventry.**—Vernon, Percy Venables, Engr. and Dir., Alfred Herbert, Ltd.
- Eastbourne.**—Haines, H. S., Woodview, Silverdale Rd.
- Gatley, Cheshire.**—Lister, Robt. Ramsbottom, Prop., Greenbank Steam Laundry.
- Huddersfield.**—Hopkinson, Allen Haigh, Gov. Dir., J. Hopkinson & Co., Ltd., Britannia Wks.
- Hyde, Cheshire.**—Adamson, Daniel, Partner, Jos. Adamson & Co.
- Lincoln.**—Chorlton, Alan E. L., Engrg. Mgr., Ruston Proctor & Co., Ltd., Sheaf Iron Wks.
- London.**—Abercrombie, James Henderson, care of The Farmers Loan & Trust Co., 15 Cockspur St., S. W.
- Baldwin, Oscar H., London Dist. Mgr., British Westinghouse Elec. & Mfg. Co., Ltd.
- Berg, Hart O., Engr., Queen's House, 8 Queen St., Cheapside, E. C.; also, Paris, France.
- Bland, John P., Printer and Ch. Engr., The Times.
- Brenner, Wm. H., Managing Dir., Electromotor Equip. Co., Ltd., 59-65 Paul St., Finsbury, E. C.; also, Atlanta, Ga.
- Carbo, L. A. (Junior), Engr. and Rep., J. G. White & Co., Ltd., 9 Cloak Lane, Cannon St., E. C.
- Carroll, Lafayette D., Mech. Engr., care of Humphreys & Glasgow, 38 Victoria St., S. W.
- Cloud, John W., V. P., West. B. Co., Ltd., 82 York Rd., King's Cross, N.

ENGLAND, London (Continued).

- Dodge, Albert Cole, Genl. Supt., West. Elec. Co., Norwalk House, Victoria Embankment.
- Fairbanks, Robert Noyes, 30 Linden Gardens, W.
- Field, Allan Bertram, care of Brown, Shipley & Co., Travelers' Office, 123 Pall Mall, S. W.
- Fox, Sir Douglas, Head of Firm, Messrs. Sir Douglas Fox and Partners, 56 Moorgate St., E. C.
- Garratt, Ernest Albert, Ch. Asst., Jacobs & Barringer, 78 Gracechurch St.
- Giller, Frederick S., Asst. Plant Engr., West. Elec. Co., Ltd., North Woolwich.
- Glasgow, Arthur Graham, Chairman, Humphreys & Glasgow, Ltd., 36-38 Victoria St., S. W.; also, Richmond, Va.
- Goodwin, Frank, care of Thos. Cook & Sons, Ludgate, Circus.
- Hayward, Fred. H., 96-98 Leadenhall St., E. C.; also, New York, N. Y.
- Helmes, M. J. (Junior), Cons. Engr., 240 Dashwood House, New Broad St., E. C.
- Knight, Charles A., Dir., Babcock & Wilcox, Ltd., Oriel House, Farringdon St., E. C.
- Kroto, George, Ch. Mech. Engr., Takata & Co., 57 Bishopgate, E. C.
- Lewis, Wm. Yorath, Cons. Engr. and Managing Dir., The British Niclausse Boiler Co., Ltd., Caxton House, Westminster, S. W.
- Mair-Rumley, John Geo., Messrs. Gwynnes, Ltd., Hammer-smith Iron Wks., W.
- Manton, Arthur Woodroffe, Civ. Engr., S. Pearson & Son, 10 Victoria St., S. W.
- Maw, Arthur Ernest (Junior), Engineering, 35 Bedford St., W. C.
- Maw, William Henry, Civ. Engr., Editor Engineering, 35 Bedford St., W. C.
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- Pulman, Thomas Chas., Sales Mgr., Worthington Pump Co., Ltd., 153 Queen Victoria St.
- Rapley, Frederick Harvey, 500 Caxton House, Westminster, S. W.
- Rogers, Charles Edward, Fraser & Chalmers, Ltd., 3 London Wall Bldgs., E. C.
- Sankey, Capt. H. Riall, Marconi House, Strand, W. C.
- Smith, John Smart, Engr. Oil Dept., S. Pearson & Sons, Ltd.
- Sparks, Hubert Conrad, Cons. Engr., Moorgate Court, Moorgate Pl., E. C.
- Taylor, Frank H., Dir. and General Mgr., Linotype Mchy., Ltd., 188 Fleet St.; also, New York, N. Y.
- Thorpe, Robt. H., Mansion House Bldg., 4 Queen Victoria St., E. C.
- Thuman, Frederic, Dir., Humphreys & Glasgow, Ltd., 36-38 Victoria St., Westminster, S. W.
- Thurston, George H., Elec. and Mech. Engr., Consld. Gold-fields of South Africa, 8 Old Jewry, E. C.
- Tyler, Willard Curtis, European Mgr., Keasbey & Mattison Co., 654 Caxton House, Sanctuary, Westminster, S. W.; also, Cambridge, Mass.

ENGLAND, London (Continued).

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 Walker, Charles Albert (Junior), Teaching Mech. Engrg.,
 London Co. Council Sch. of Engrg. and Navigation, High
 St., Poplar, E.
 Wescott, William Patton, Managing Dir., Galena-Signal Oil
 Co., Ltd., Broadway Court, Broadway, Westminster, S. W.
 Whiteford, James F., Counselling Engr., Suffern & Son, Salis-
 bury House, London Wall, E. C.
 Wilkinson, Cecil Tom (Junior), Cons. Engr., 42 Bank Bldgs.,
 Kingsway, W. C.
 Woldenberg, I. (Junior), Ch. Engr., Ingersoll-Rand Co., 165
 Queen Victoria St., E. C.
- Manchester.**—Aspinall, John A. F., Genl. Mgr., Lancashire &
 Yorkshire Ry., Hunts Bank.
 Brown, A. G., 53 Victoria Bldgs.
 Lange, Philip A., Managing Dir., The British Westinghouse
 Elec. & Mfg. Co., Ltd., Trafford Park.
 Renold, Charles Garonne (Junior), Dir., Hans Renold, Ltd.,
 Progress Wks.
- Middlesex.**—Bell, Raymond T., Ch. Draftsman, The Gramophone
 Co., Ltd., Hayes.
 Dennison, Wilburn Norris, Ch. Engr. and Genl. Supt., The
 Gramophone Co., Ltd., English and Continental Wks.
- Sheffield.**—Darby, John Henry, 155 Norfolk St.
 Hadfield, Sir Robert Abbott, F. R. S., Chairman and Managing
 Dir., Hadfield Co.; also, London.
 Thomas, Walter Henry, Managing Dir., Wm. Jessop & Sons,
 Ltd., Brightside Wks.
- Woolwich, Kent.**—Heap, Douglas T., Supt. Mech. Engrg. Dept.,
 Royal Arsenal.

FINLAND

- Abo.**—Heikel, Daniel August, Mech. Engr.
Lahti.—Kapy, Artturi A. (Junior), Factory Inspr., Dist. of Lahti.

FRANCE

- Le Havre.**—Schmid, Albert, Dir. and Cons. Engr., Société
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- Paris.**—Benét, Laurence V., V. P., Société Anonyme des Anciens
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 Hudson Wire Co.
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GERMANY

- Aachen.**—Langer, Paul, Prof. Koenigl. Techn. Hochschule.
Wallichs, Adolph O., Prof. Techn. Hochschule.
- Berlin.**—Arnold, Otto, Jr. (Junior), Mgr., Fredrich Stolzenberg & Co., G. m. b. H., Reinickendorf-West.
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- Charlottenburg.**—Matschoss, Conrad, Prof. History of Tech. and Industries, Charlottenburg Tech. High Sch.
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- Coblenz.**—von Oswald, William, Privy Councillor of Commerce, Bergassessor, a. D., Carl Spaeter, Rheinzollstrasse 6.
- Cologne.**—Neilson, William LaCoste, Genl. Mgr., Deutsche Norton Gesellschaft, m. b. H., Wesseling bez.
- Danzig-Langfuhr.**—Schulze-Pillot, Gerhard, Prof. Mech. Engrg., Royal Tech. Univ.
- Düsseldorf.**—Gerdau, Barthold, Ch. Engr. and Managing Dir., Hanlcl & Lueg.
- Elbe.**—Shearer, Christopher A. (Junior), Nationale Radiator Gesellschaft, Schönebeck; also, Reading, Pa.
- Frankfort-on-Main.**—Kretschmer, Frederick G., Prop., F. G. Kretschmer & Co., Gutleutstr. 2.
- Mülheim (Ruhr)-Broich.**—Schuchart, Dr. Theodor.
- Munich.**—von Miller, Dr. Ing. Oskar, Reichsrat, Ferdinand Millerplatz 3.
- Nuremberg.**—Lebrecht, A., Cons. Engr., Hefnersplatz 3.

HOLLAND

- Amsterdam.**—Alta, Lucas Nicholas, Mech. Engr. and Sole Member of Firm, L. N. Alta & Co., 48 Binnenkant.

INDIA

- Ahmedabad.**—Wadia, Ardeshir D., Advisory Engr., Prin., A. D. Wadia & Co., Ahmedabad and Bombay, and Managing Prop., Imperial Iron Wks., Outside Raipur Gate.
- Lucknow.**—Carter, Harold Thomas (Junior), Engr., Water Wks., Aish Bagh.
- Madras.**—Rajagopalan, T. R. (Junior), Draftsman, The Carnatic Mill Co., Ltd., Perambore Barracks.
- Sakchi, via Kallimati, B. N. Ry.**—Wells, Robert G., Genl. Mgr., The Tata Iron & Steel Co., Ltd.; also, East Aurora, N. Y.

ITALY

- Brescia.**—Andrei, Camillo (Junior), Società Nazionale dei Radiatori, Borgo S. Giovanni.

ITALY, Brescia (Continued).

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JAPAN

Nishi-Karatsu, Hizen.—Takeo, Toshisuke, Cons. Engr., Takeuchi Min. Co., Genl. Mgr., Karatsu Iron Wks.

Osaka.—Kuwada, Gompel, Engr. and Ch. of Distribution Dept., Osaka Gas Co.

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Thurston, Walter Richard, Mgr. Mex. Office, Internatl. Steam Pump Co. and Power & Min. Mchy. Co.

Wiggin, Ralph Mitchell, Apartado 97-B.

Sinaloa.—Chandler, Howard M., Cons. Mech. Engr., United Sugar Cos., Los Mochis; also, Manhattan, Kan.

Tampico.—Farr, Roy S. (Junior), Asst. Engr., Compania Mexicana de Petroleo "El Aguila," S. A.

Posgate, James Stephen, Eagle Oil Co.

Veracruz.—Clarke, Philip L. (Junior), Ch. Electrician, Mexican Sugar Refining Co., Ingenio Santa Fe, Tlacotalpan.

Turner, William Camillo (Junior), Ch. Engr., Tabasco Plantation Co., Santa Lucrecia.

Zamora, Michoacan.—Appleton, Wm. Day (Junior), Supt., The Guanajuato Power & Elec. Co., Apartado 23.

NORWAY

Kristiania.—Heyerdahl, Thorvald, Halvdan Svartestgt 16.

ROUMANIA

Bukarest.—Roesler, Dr. Rudolf (Junior), Pres., Roumanian Enterprises of Deutsche Erdoel Actiengesellschaft, Concordia, Vega, Credit Petrolifer, 10 Strada Lipscani.

RUSSIA

- Moscow.**—Brezinsky, Emil, Sales Engr., Internatl. Engrg. Co.
Podolsk, Moscow Gov.—Dixon, Walter Frank, Mgr., Singer Mfg. Co.'s Wks.
St. Petersburg.—Smith, Wm. Edward, Pres., Swedish Portland Cement Mfg. Co., P. O. Box 263.
 Weinberg, Semen G., Min. Engr., Mgr., Worthington Pump Co., Ltd.

SCOTLAND

- Greenock.**—Caird, Robert, Managing Dir., Caird & Co., Ltd.
Singer, Clydebank.—Rickey, Walter J., The Singer Mfg. Co., Ltd.

SOUTH AMERICA

- Bellavista, Peru.**—Dasso, David (Junior), Mech. Engr., A. Bertello & Co.
Brazil.—Dreyer, Charles Frederick (Junior), Dept. of Mech. Engrg., Escola de Engenharia de Porto Alegre.
Buenos Ayres, Argentina.—Corlette, Glen H. (Junior), Engr., Fairbanks, Morse & Co., 614 Calle Venezuela.
 Tregelles, Henry, Bartolomé, Mitre 544.
Chorrillos, Peru.—D'Ornellas, T. V., Elec. Cons. Engr., Peruvian Gov., Calle de Lima 15.
Iquique, Chile.—Billwiler, Charles James, Jr., Constr. Engr., Nitrate Agencies, Ltd.; also, New York, N. Y.
Lima, Peru.—Marquina, Luis G., Engr., Peruvian Corp., Ltd.
 Martinto, Pedro, Apartado 146.
 Wagner, Emilio F., Engr., Cocoa 76.
Rancagua, Chill.—Haff, Raymond E. T. (Junior), Braden Copper Co.
 Stockwell, Rupert Kennedy, Ch. Engr., Braden Copper Co.; also, Salt Lake City, Utah.
Rio de Janeiro, Brazil.—Barboza, Arthur S., Rua Senador Pompeu 268, E. F. C. B.
 Prestes, Jose Augusto, Mech. Engr., Rua da Saude No. 1.
 da Silva, Antonio P., Genl. Foreman of Installation, Engenho de Dentro Shops, Central Ry. of Brazil, Estrada de Ferro Central do Brazil.
 Thompson, Herbert Leslie (Junior), Internatl. Steam Pump Co.
Santiago, Chile.—Taylor, William T., Cons. Engr., Bank of Chile; also, Lancashire, England.
Sao Paulo, Brazil.—Head, Francis, Engr. of Constr., The Sao Paulo Tramway, Light & Power Co., Ltd.
 Hillman, Cecil Robert, Loco. Supt., Sao Paulo Ry. Co.
 Walmsley, W. N., Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd.

SPAIN

- Barcelona.**—Baker, Orth Kitchell, Charge Drafting Rm. Cement Plant Dept., Riegos y Fuerza del Ebro, S. A.
 Billings, A. W. K., V. P. and Managing Dir., Ebro Irrigation & Power Co., Ltd., Apartado 491; also, New York, N. Y.

SPAIN, Barcelona (Continued).

Braun, Horace Herbert (Junior), Constr. Engr., Cia Reigos & Fuerza del Ebro, Apartado 491; also, Los Angeles, Cal.
 Kniskern, W. H., Engr. Charge of Design, Constr. and Operation, San Antonio Portland Cement Plant, Ebro Irrigation & Power Co., Ltd.

SWEDEN

Kallinge.—Trotz, J. O. Emanuel, Managing Dir., Kockums Jernverks, Akth.

Stockholm.—Angstrom, Carl, Cons. Engr., Skepparegatan 5.
 Berg, P. T., Am. Vice-Consul Genl., No. 63, Strandvagen.
 Sunstrom, Karl J., Cons. Engr., Odengaten 92.

SWITZERLAND

Winterthur.—Meier, Konrad, Htg. and Ventilating Engr., 12 Tachlisbrunnen St.

Sulzer, Jacob Carl, Sulzer Bros.

Zurich.—Spoerri, Henry, Engr., Spoerri & Co., Technisches Bureau, Bergstrasse 76.

TURKEY

Constantinople.—Scipio, Lynn A., Dean and Prof. Mech. Engrg., Robert College.

WEST INDIES

St. Andrews, Jamaica.—Smith, T. Carpenter, "Havod," Constant Spring P. O.

PRESENT ADDRESS UNKNOWN

Aldrich, J. Guy (Junior).

Berry, Edgar H.

Greene, Isaac Chase.

Hand, S. Ashton.

SUMMARY OF MEMBERSHIP BY RESIDENCE

UNITED STATES

Alabama	22	Nebraska	7
Alaska	2	Nevada	2
Arizona	8	New Hampshire	15
Arkansas	4	New Jersey	263
California	145	New Mexico	3
Canal Zone	14	New York	1404
Colorado	29	North Carolina	16
Connecticut	214	North Dakota	3
Delaware	21	Ohio	357
District of Columbia	44	Oklahoma	1
Florida	3	Oregon	11
Georgia	20	Pennsylvania	630
Hawaii	10	Philippine Islands	4
Idaho	2	Porto Rico	5
Illinois	347	Rhode Island	79
Indiana	87	South Carolina	5
Iowa	22	South Dakota	1
Kansas	17	Tennessee	21
Kentucky	16	Texas	33
Louisiana	32	Utah	11
Maine	20	Vermont	21
Maryland	56	Virginia	33
Massachusetts	507	Washington	30
Michigan	187	West Virginia	14
Minnesota	54	Wisconsin	130
Mississippi	4	Wyoming	2
Missouri	89		
Montana	9	Total	5086

FOREIGN COUNTRIES

Africa	13	India	4
Australia	9	Italy	4
Austria	3	Japan	4
Belgium	6	Mexico	14
Canada	95	Norway	1
Central America	1	Roumania	1
Channel Islands	1	Russia	4
China	3	Scotland	2
Cuba	11	South America	18
Dutch East Indies	1	Spain	4
England	63	Sweden	4
Finland	2	Switzerland	3
France	11	Turkey	1
Germany	19	West Indies	1
Holland	1	Total	304

Membership in United States	5086
Membership in foreign countries	304
Present address unknown	4
Total Membership	5394

MEMBERSHIP BY GRADES

Honorary Members	14
Members	3700
Associates	375
Associate-Members	92
Juniors	1213
Total Membership	5394

**THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS**

**MISCELLANEOUS
INFORMATION
CHARTER, CONSTITUTION
BY-LAWS AND RULES**

OFFICERS OF THE GAS POWER SECTION

1914

Chairman, FRED. R. HUTTON

Secretary, GEO. A. ORROK

Gas Power Executive Committee

C. H. BENJAMIN (1)

H. J. K. FREYN (1)

W. H. BLAUVELT (3)

F. R. LOW (2)

W. D. ENNIS (5)

I. E. MOULTROP (4)

H. H. SUPLEE (1)

Gas Power Literature Committee

R. B. BLOEMEKE, *Chairman*

Gas Power Membership Committee

A. F. STILLMAN, *Chairman*

Gas Power Committee on Meetings

WM. T. MAGRUDER, *Chairman*

OFFICERS OF STUDENT BRANCHES

Institution	Date Authorized by Council	Honorary Chairman	Chairman and Secretary
Armour Institute of Tech., Chicago, Ill.	1909	G. F. Gebhardt.....	H. E. Erickson A. N. Koch
Carnegie Institute of Tech., Pittsburgh, Pa.	1913	W. Trinks.....	J. B. Patterson W. M. Sheldon
Case School of Applied Science, Cleveland, O.	1913	F. H. Vose.....	H. C. Mummert J. B. Whitacre
Columbia University, New York, N. Y.	1909	Chas. E. Lucke.....	F. B. Schmidt H. F. Allen
Cornell University, Ithaca, N. Y.	1908	R. C. Carpenter.....	J. G. Miller D. S. Wegg, Jr.
Lehigh University, South Bethlehem, Pa.	1909	W. F. Durand.....	C. P. Campbell B. M. Green
Leland Stanford Jr. Uni- versity, Stanford Univ., Cal.	1911	P. B. de Schweinitz..	W. C. Owen T. G. Shaffer
Massachusetts Institute of Tech., Boston, Mass.	1909	E. F. Miller.....	H. W. Treat L. L. Downing
New York University, New York, N. Y.	1909	C. E. Houghton.....	
Ohio State University, Co- lumbus, O.	1911	Wm. T. Magruder...	R. M. Wagner C. L. Newby
Pennsylvania State College, State College, Pa.	1909	J. P. Jackson.....	A. L. Foell R. W. Herzog
Polytechnic Institute of Brooklyn, Brooklyn, N. Y.	1909	W. D. Ennis.....	A. A. Bielek H. Sand
Purdue University, Lafayette, Ind.	1909	G. A. Young.....	A. D. Meals G. F. Lynde
Rensselaer Polytechnic Insti- tute, Troy, N. Y.	1910	A. M. Greene, Jr....	F. E. McMullen R. L. Manier
State University of Iowa, Iowa City, Ia.	1913	R. S. Wilbur.....	F. H. Guldner C. S. Thompson
State University of Ken- tucky, Lexington, Ky.	1911	F. P. Anderson.....	H. G. Strong R. T. Thornton
Stevens Institute of Tech- nology, Hoboken, N. J.	1908	Alex. C. Humphreys..	L. F. Bayer C. H. Colvin
Syracuse University, Syra- cuse, N. Y.	1911	W. E. Ninde.....	G. T. Parsons W. J. Campbell
University of Arkansas, Fay- etteville, Ark.	1910	B. N. Wilson.....	M. McGill C. Bethel
University of California, Berkeley, Cal.	1912	Joseph N. LeConte..	R. Guillon P. H. Landon
University of Cincinnati, Cincinnati, O.	1909	J. T. Faig.....	A. O. Hurxthal E. A. Oster
University of Illinois, Urbana, Ill.	1909	W. F. M. Goss.....	A. H. Aagaard H. E. Austin
University of Kansas, Law- rence, Kan.	1909	F. H. Sibley.....	L. C. Angevine H. L. Newby
University of Maine, Orono, Me.	1910	Arthur C. Jewett...	E. E. Fowler A. B. Hayes
University of Missouri, Co- lumbia, Mo.	1909	H. Wade Hibbard...	R. Runge L. L. Leach
University of Minnesota, Minneapolis, Minn.	1913	J. J. Flather.....	A. Buenger J. A. Colvin
University of Nebraska, Lin- coln, Neb.	1909	J. D. Hoffman.....	A. A. Luebs G. W. Nigh
University of Wisconsin, Mad- ison, Wis.	1909	H. J. Thorkelson...	M. A. Cook R. E. Maurer
Washington University, St. Louis, Mo.	1911	E. L. Ohle.....	A. O. Schleiffarth J. A. Watkins Jr.
Yale University, New Haven, Conn.	1910	L. P. Breckenridge..	L. F. Harder M. C. Corbett

DECEASED HONORARY MEMBERS

Name	Date of Election	Died
Horatio Allen	1880	1889
Sir Wm. Arrol.....	1905	1913
Benjamin Baker	1886	1907
Johann Bauschinger	1884	1893
Henry Bessemer	1891	1898
Frederick Bramwell	1884	1904
Gustave Canet	1900	1908
Daniel K. Clark	1882	1896
Rudolph Clausius	1882	1888
John Coode	1889	1892
Peter Cooper	1882	1883
Carl Gustav Patrick de Laval.....	1912	1913
Rudolph Diesel	1912	1913
James Dredge	1886	1906
V. Dwelshauvers-Dery	1886	1913
John Fritz	1900	1913
F. Grashof	1884	1893
O. Hallauer	1882	1883
Chas. H. Haswell.....	1905	1907
Gustav Herrmann	1884	1907
G. A. Hirn.....	1882	1890
Joseph Hirsch	1889	1901
Geo. W. Melville.....	1910	1912
Chas. T. Porter.....	1890	1910
Edward J. Reed.....	1882	1906
Franz Reuleaux	1882	1905
Henri Schneider	1882	1898
C. William Siemens.....	1882	1883
Henri Tresca	1882	1885
Francis A. Walker.....	1886	1897
Sir William H. White.....	1900	1913

PAST OFFICERS

Alexander L. Holley, Chairman of the Meeting for Organization
of The American Society of Mechanical Engineers.....
.....Died January 29, 1882

PRESIDENTS

R. H. Thurston.....	1880-1882.....	Died October 25, 1903
E. D. Leavitt.....	1883.....	Cambridge, Mass.
John E. Sweet.....	1884.....	Syracuse, N. Y.
J. F. Holloway.....	1885.....	Died September 1, 1896
Coleman Sellers	1886.....	Died December 23, 1907
George H. Babcock.....	1887.....	Died December 16, 1893
Horace See	1888.....	Died December 14, 1909
Henry R. Towne.....	1889.....	New York, N. Y.
Oberlin Smith	1890.....	Bridgeton, N. J.
Robert W. Hunt.....	1891.....	Chicago, Ill.
Charles H. Loring.....	1892.....	Died February 5, 1907
Eckley B. Coxe.....	1893-1894.....	Died May 13, 1895
E. F. C. Davis.....	1895.....	Died August 6, 1895
Charles E. Billings.....	1895.....	Hartford, Conn.
John Fritz	1896.....	Died February 13, 1913
Worcester R. Warner.....	1897.....	Cleveland, O.
Charles Wallace Hunt.....	1898.....	Died March 27, 1911
George W. Melville.....	1899.....	Died March 17, 1912
Charles H. Morgan.....	1900.....	Died January 10, 1911
S. T. Wellman.....	1901.....	Cleveland, O.
Edwin Reynolds	1902.....	Died February 19, 1909
James M. Dodge.....	1903.....	Philadelphia, Pa.
Ambrose Swasey.....	1904.....	Cleveland, O.
John R. Freeman.....	1905.....	Providence, R. I.
F. W. Taylor.....	1906.....	Philadelphia, Pa.
F. R. Hutton.....	1907.....	New York, N. Y.
M. L. Holman.....	1908.....	St. Louis, Mo.
Jesse M. Smith.....	1909.....	New York, N. Y.
George Westinghouse	1910.....	Pittsburgh, Pa.
E. D. Meier.....	1911.....	New York, N. Y.
Alex. C. Humphreys.....	1912.....	New York, N. Y.
W. F. M. Goss.....	1913.....	Urbana, Ill.

VICE-PRESIDENTS

Henry Rossiter Worthington.....	April-December, 1880
Coleman Sellers	April, 1880—November, 1881
Eckley B. Coxe.....	April, 1880—November, 1881
Quincy A. Gillmore.....	April, 1880—December, 1880
Wm. H. Shock.....	April, 1880—November, 1882
Alexander L. Holley.....	April, 1880—January, 1882
Francis A. Pratt.....	December, 1880—November, 1881
Theo. N. Ely.....	1881—November, 1882
Washington Jones	1881—November, 1882

NOTE.—According to the Constitution, Article C 26, the five Past Presidents who last held the office shall be members of the Council, with all the rights, privileges and duties of the other members of the Council.

Wm. P. Trowbridge.....	1881—November, 1883
E. D. Leavitt.....	1881—December, 1882
Chas. E. Emery.....	1881-1883
S. B. Whiting.....	1882-1883
John Fritz.....	1882-1884
Henry Morton.....	1882-1884
Wm. Metcalf.....	1882-1884
A. B. Couch.....	1883-1885
W. R. Eckart.....	1883-1885
J. V. Merrick.....	1883-1885
Chas. W. Copeland.....	1884-1886
Henry R. Towne.....	1884-1886
Coleman Sellers.....	1884-1885
Olin H. Landreth.....	1885-1886
Allan Stirling.....	1885-1887
Horace See.....	1885-1887
Chas. H. Loring.....	1885-1887
Jos. Morgan, Jr.....	1886-1888
Chas. T. Porter.....	1886-1888
Horace S. Smith.....	1886-1888
W. S. G. Baker.....	1887-1889
H. G. Morris.....	1887-1889
C. J. H. Woodbury.....	1887-1889
Thos. J. Borden.....	1888-1890
William Kent.....	1888-1890
Charles B. Richards.....	1888-1890
De Volson Wood.....	1889-1891
Joel Sharp.....	1889-1891
Geo. W. Weeks.....	1889-1891
Stephen W. Baldwin.....	1890-1892
Alex. Gordon.....	1890-1892
Jno. F. Parkhurst.....	1890-1892
George I. Alden.....	1891-1893
E. F. C. Davis.....	1891-1893
Irving M. Scott.....	1891-1893
Charles Wallace Hunt.....	1892-1894
Edwin Reynolds.....	1892-1894
Thos. R. Pickering.....	1892-1894
Percival Roberts, Jr.....	1893-1895
H. J. Small.....	1893-1895
Charles E. Billings.....	1893-1895
Frank H. Ball.....	1894-1896
M. L. Holman.....	1894-1896
Jesse M. Smith.....	1894-1896
Francis W. Dean.....	1895-1897
Charles H. Manning.....	1895-1897
George W. Melville.....	1895-1897
Edwin S. Cramp.....	1896-1898
W. F. Durfee.....	1896-1898
S. T. Wellman.....	1896-1898
Charles M. Jarvis.....	1897-1899
Walter S. Russel.....	1897-1899
John C. Kafer.....	1897-1899
E. D. Meier.....	1898-1900
George R. Stetson.....	1898-1900
B. H. Warren.....	1898-1900
Jesse M. Smith.....	1899-1901
Stevenson Taylor.....	1899-1901

David Townsend	1899-1901
James M. Dodge.....	1900-1902
Ambrose Swasey	1900-1902
Arthur M. Walitt.....	1900-1902
M. E. Cooley.....	1901-1903
Wilfred Lewis	1901-1903
M. P. Higgins.....	1901-1903
James Christie	1902-1904
F. H. Daniels.....	1902-1904
John R. Freeman.....	1902-1904
D. S. Jacobus.....	1903-1905
William J. Keep.....	1903-1905
M. L. Holman.....	1903-1905
S. M. Vauclain.....	1904-1906
H. H. Westinghouse.....	1904-1906
Fred. W. Taylor.....	1904-1905
Geo. H. Barrus.....	1905-1906
Walter M. McFarland.....	1905-1907
Robt. C. McKinney.....	1905-1907
Edward N. Trump.....	1905-1907
Philetus W. Gates.....	1906-1908
John W. Lieb, Jr.....	1906-1908
Alex Dow	1906-1908
L. P. Breckenridge.....	1907-1909
Fred J. Miller.....	1907-1909
Arthur West	1907-1909
Geo. M. Bond.....	1908-1910
R. C. Carpenter.....	1908-1910
F. M. Whyte.....	1908-1910
Chas. Whiting Baker.....	1909-1911
W. F. M. Goss.....	1909-1911
E. D. Meier.....	1909-1910
Alex. C. Humphreys.....	1910-1911
Geo. M. Brill.....	1910-1912
Edwin M. Herr.....	1910-1912
Henry H. Vaughan.....	1910-1912
Wm. F. Durand.....	1911-1913
Ira N. Hollis.....	1911-1913
Thos. B. Stearns.....	1911-1913

MANAGERS

Wm. P. Trowbridge.....	April, 1880—November, 1881
Theo. N. Ely.....	April, 1880—November, 1881
J. C. Hoadley.....	April, 1880—November, 1881
Washington Jones	April, 1880—November, 1881
Wm. B. Cogswell.....	April, 1880—November, 1882
Chas. B. Richards.....	April, 1880—November, 1882
S. B. Whiting.....	April, 1880—November, 1882
E. D. Leavitt, Jr.....	April, 1880—November, 1882
J. F. Holloway.....	November, 1880—November, 1883
Geo. W. Fisher.....	November, 1880—November, 1883
Allan Stirling	November, 1881—November, 1884
Geo. H. Babcock.....	1881—November, 1884
S. W. Robinson.....	1881—November, 1884
John E. Sweet.....	1882-1883
Robt. W. Hunt.....	1882-1885
Chas. T. Porter.....	1882-1885

C. J. H. Woodbury.....	1882-1885
W. F. Durfee.....	1883-1886
Oberlin Smith.....	1883-1886
C. C. Worthington.....	1883-1886
Wm. Lee Church.....	1884-1887
Wm. Hewitt.....	1884-1887
Chas. H. Morgan.....	1884-1887
Hamilton A. Hill.....	1885-1888
William Kent.....	1885-1888
Saml. T. Wellman.....	1885-1888
John T. Hawkins.....	1886-1889
Fredk. G. Coggin.....	1886-1889
Thos. R. Morgan, Sr.....	1886-1889
Stephen W. Baldwin.....	1887-1890
Fredk. Grinnell.....	1887-1890
Morris Sellers.....	1887-1890
Frank H. Ball.....	1888-1891
Geo. M. Bond.....	1888-1891
Wm. Forsyth.....	1888-1891
Jas. E. Denton.....	1889-1892
Carleton W. Nason.....	1889-1892
H. H. Westinghouse.....	1889-1892
Andrew Fletcher.....	1890-1893
Worcester R. Warner.....	1890-1893
Coleman Sellers, Jr.....	1890-1893
Jas. M. Dodge.....	1891-1894
Robt. Forsyth.....	1891-1894
Jesse M. Smith.....	1891-1894
John Thomson.....	1892-1895
Charles W. Pusey.....	1892-1895
Charles H. Manning.....	1892-1895
John B. Herreshoff.....	1893-1896
Lebbeus B. Miller.....	1893-1896
Walter S. Russel.....	1893-1896
Charles A. Bauer.....	1894-1897
Arthur C. Walworth.....	1894-1897
John C. Kafer.....	1894-1897
Geo. W. Dickie.....	1895-1898
E. D. Meier.....	1895-1898
Norman C. Stiles.....	1895-1898
A. Wells Robinson.....	1896-1899
H. S. Haines.....	1896-1899
G. C. Henning.....	1896-1899
J. B. Stanwood.....	1897-1900
H. H. Suplee.....	1897-1900
Geo. Richmond.....	1897-1900
Edgar C. Felton.....	1898-1901
A. M. Goodale.....	1898-1901
Richard H. Soule.....	1898-1901
Francis H. Boyer.....	1899-1902
John A. Brashear.....	1899-1902
Alfred H. Raynal.....	1899-1902
W. F. M. Goss.....	1900-1903
D. S. Jacobus.....	1900-1903
De Courcy May.....	1900-1903
Charles H. Corbett.....	1901-1904
H. A. Gillis.....	1901-1904
R. S. Moore.....	1901-1904

Robt. C. McKinney.....	1902-1905
Newell Sanders	1902-1905
S. S. Webber.....	1902-1905
John W. Lieb, Jr.....	1903-1906
Asa M. Mattice.....	1903-1906
Geo. I. Rockwood.....	1903-1906
George M. Brill.....	1904-1907
Fred J. Miller.....	1904-1907
Richard H. Rice.....	1904-1907
Walter Laidlaw	1905-1908
Fred M. Prescott.....	1905-1908
Frank G. Tallman.....	1905-1908
G. M. Basford.....	1906-1909
Andrew J. Caldwell.....	1906-1909
Andrew L. Riker.....	1906-1909
Wm. L. Abbott.....	1907-1910
Alex. C. Humphreys.....	1907-1910
Henry G. Stott.....	1907-1910
H. L. Gantt.....	1908-1911
I. E. Moulthrop.....	1908-1911
W. J. Sando.....	1908-1911
J. Sellers Bancroft.....	1909-1911
James Hartness	1909-1912
H. G. Reist.....	1909-1912
Henry G. Stott.....	1911-1912
D. F. Crawford.....	1910-1913
Stanley G. Flagg, Jr.....	1910-1913
E. B. Katte.....	1910-1913

TREASURERS

Lycurgus B. Moore.....	April, 1880—December, 1881
Chas. W. Copeland.....	December, 1881—November, 1884

SECRETARIES

Saml. S. Webber, Jr.....	Secretary, organization meeting, 1880
Lycurgus B. Moore.....	Acting Secretary, April—November, 1880
Thos. Whiteside Rae.....	November, 1880—March, 1883
F. R. Hutton.....	1883-1906

CALENDAR OF ANNUAL AND SPRING MEETINGS

Place	Date	No.	Class of Meeting	Members Present
New York, N. Y.	Feb. 16, 1880		Preliminary	
Hoboken, N. J.	April 7, 1880		Organization	
New York, N. Y.	Nov. 4 to 5, 1880	1	1st Annual	84
Hartford, Conn.	May 4 to 6, 1881	2	Regular	36
Altoona, Pa.	Aug. 10 to 12, 1881	3	Regular	37
New York, N. Y.	Nov. 3 to 4, 1881	4	2d Annual	65
Philadelphia, Pa.	April 19 to 21, 1882	5	Regular	96
New York, N. Y.	Nov. 1 to 3, 1882	6	3d Annual	58
Cleveland, O.	June 12 to 14, 1883	7	Regular	77
New York, N. Y.	Oct. 31 to Nov. 3, 1883	8	4th Annual	131
Pittsburgh, Pa.	May 20 to 23, 1884	9	Regular	93
New York, N. Y.	Nov. 5 to 7, 1884	10	5th Annual	129
Atlantic City, N. J.	May 26 to 29, 1885	11	Regular	71
Boston, Mass.	Nov. 10 to 13, 1885	12	6th Annual	130
Chicago, Ill.	May 25 to 28, 1886	13	Regular	121
New York, N. Y.	Nov. 30 to Dec. 3, 1886	14	7th Annual	192
Washington, D. C.	May 31 to June 3, 1887	15	Regular	117
Philadelphia, Pa.	Nov. 28 to Dec. 1, 1887	16	8th Annual	216
Nashville, Tenn.	May 8 to 12, 1888	17	Regular	58
Seranton, Pa.	Oct. 15 to 18, 1888	18	9th Annual	124
Erie, Pa.	May 14 to 17, 1889	19	Regular	83
New York, N. Y.	Nov. 18 to 22, 1889	20	10th Annual	249
Cincinnati, O.	May 13 to 16, 1890	21	Regular	164
Richmond, Va.	Nov. 11 to 14, 1890	22	11th Annual	126
Providence, R. I.	June 16 to 19, 1891	23	Regular	279
New York, N. Y.	Nov. 16 to 19, 1891	24	12th Annual	298
San Francisco, Cal.	May 16 to 19, 1892	25	Regular	54
New York, N. Y.	Nov. 29 to Dec. 2, 1892	26	13th Annual	294
Chicago, Ill.	July 31 to Aug. 5, 1893	27	Regular	283
New York, N. Y.	Dec. 4 to 8, 1893	28	14th Annual	268
Montreal, Canada	June 5 to 8, 1894	29	Regular	133
New York, N. Y.	Dec. 3 to 7, 1894	30	15th Annual	383
Detroit, Mich.	June 25 to 28, 1895	31	Regular	132
New York, N. Y.	Dec. 2 to 6, 1895	32	16th Annual	346
St. Louis, Mo.	May 19 to 22, 1896	33	Regular	92
New York, N. Y.	Dec. 1 to 4, 1896	34	17th Annual	391
Hartford, Conn.	May 25 to 28, 1897	35	Regular	205
New York, N. Y.	Nov. 30 to Dec. 3, 1897	36	18th Annual	378
Niagara Falls, N. Y.	May 31 to June 3, 1898	37	Regular	137
New York, N. Y.	Nov. 29 to Dec. 2, 1898	38	19th Annual	351
Washington, D. C.	May 9 to 12, 1899	39	Regular	274
New York, N. Y.	Dec. 5 to 8, 1899	40	20th Annual	469
Cincinnati, O.	May 15 to 18, 1900	41	Regular	144
New York, N. Y.	Dec. 4 to 7, 1900	42	21st Annual	467
Milwaukee, Wis.	May 28 to 31, 1901	43	Regular	156
New York, N. Y.	Dec. 3 to 6, 1901	44	22d Annual	519
Boston, Mass.	May 27 to 30, 1902	45	Regular	375
New York, N. Y.	Dec. 2 to 5, 1902	46	23d Annual	474
Saratoga, N. Y.	June 23 to 26, 1903	47	Regular	315
New York, N. Y.	Dec. 1 to 4, 1903	48	24th Annual	538
Chicago, Ill.	May 31 to June, 4 1904	49	Regular	350
New York, N. Y.	Dec. 6 to 9, 1904	50	25th Annual	542
Seranton, Pa.	June 6 to 9, 1905	51	Regular	121
New York, N. Y.	Dec. 5 to 8, 1905	52	26th Annual	700
Chattanooga, Tenn.	May 1 to 4, 1906	53	Regular	212
New York, N. Y.	Dec. 4 to 7, 1906	54	27th Annual	735
Indianapolis, Ind.	May 28 to 31, 1907	55	Regular	296

Place	Date	No.	Class of Meeting	Members Present
New York, N. Y....	Dec. 3 to 6, 1907.....	56	28th Annual..	699
Detroit, Mich.	June 23 to 26, 1908.....	57	Regular.....	269
New York, N. Y....	Dec. 1 to 4, 1908.....	58	29th Annual..	738
Washington, D. C....	May 4 to 7, 1909.....	59	Regular.....	276
New York, N. Y....	Dec. 7 to 10, 1909.....	60	30th Annual..	628
Atlantic City, N. J..	May 31 to June 3, 1910..	61	Regular.....	135
New York, N. Y....	Dec. 6 to 9, 1910.....	62	31st Annual..	633
Pittsburgh, Pa.....	May 30 to June 2, 1911..	63	Regular.....	305
New York, N. Y....	Dec. 5 to 8, 1911.....	64	32d Annual...	687
Cleveland, O.	May 28 to 31, 1912.....	65	Regular.....	221
New York, N. Y....	Dec. 3 to 6, 1912.....	66	33d Annual...	562
Baltimore, Md.....	May 20 to 23, 1913.....	67	Regular.....	142
New York, N. Y....	Dec. 2 to 5, 1913.....	68	34th Annual..	778

DEPOSITORIES FOR TRANSACTIONS

Altoona Mechanics Library, Altoona, Pa.
Armour Institute of Technology, Chicago, Ill.
Atlantic Works, East Boston, Mass.
Boston Public Library, Boston, Mass.
Brooklyn Public Library, Brooklyn, N. Y.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cambria Library Association, Johnstown, Pa.
Carnegie Free Library, Allegheny, Pa.
Case School of Applied Science, Cleveland, O.
Cleveland Public Library, Cleveland, O.
Colorado School of Mines, Golden, Colo.
Commonwealth Edison Co., Chicago, Ill.
Cornell University, Ithaca, N. Y.
Detroit Public Library, Detroit, Mich.
Grand Rapids Public Library, Grand Rapids, Mich.
Grosvenor Library, Buffalo, N. Y.
Harvard University, Cambridge, Mass.
Iowa State College, Ames, Ia.
John Crerar Library, Chicago, Ill.
Kansas City Public Library, Kansas City, Mo.
Leland Stanford Jr. University, Palo Alto, Cal.
Lewis Institute, Chicago, Ill.
Library Association of Portland, Portland, Ore.
Library of Congress, Washington, D. C.
Lowell City Library, Lowell, Mass.
Louisiana State University, Hill Memorial Library, Baton Rouge, La.
McGill University, Montreal, Canada.
Massachusetts Institute of Technology, Boston, Mass.
Mechanics-Mercantile Library, San Francisco, Cal.
Michigan Agricultural College, Lansing, Mich.
Michigan School of Mines, Houghton, Mich.
Montana State College of Agricultural and Mechanical Arts, Bozeman, Mont.
New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.
New Hampshire State Library, Concord, N. H.
New Mexico College of Agricultural and Mechanical Arts, Mesilla Park, New Mex.
New York Public Library, New York, N. Y.
New York State Library, Albany, N. Y.
Northwestern University, Evanston, Ill.
Ohio State University, Columbus, O.
Oregon Agricultural College, Corvallis, Ore.
Patent Office Library, London, England.
Pennsylvania State College, State College, Pa.
Plainfield Public Library, Plainfield, N. J.
Polytechnic Institute of Brooklyn, Brooklyn, N. Y.
Pratt Institute Free Library, Brooklyn, N. Y.
Princeton University, Princeton, N. J.
Purdue University, Lafayette, Ind.

Rose Polytechnic Institute, Terre Haute, Ind.
Rutgers College, New Brunswick, N. J.
St. Louis Mercantile Library Association, St. Louis, Mo.
St. Louis Public Library, St. Louis, Mo.
Sheffield Scientific School, New Haven, Conn.
State College of Washington, Pullman, Wash.
State University of Iowa, Iowa City, Ia.
State University of Kentucky, Lexington, Ky.
State University of North Dakota, University, N. D.
Steel Works Club, Joliet, Ill.
Stevens Institute of Technology, Hoboken, N. J.
Syracuse Public Library, Syracuse, N. Y.
Toledo Public Library, Toledo, O.
Tulane University, New Orleans, La.
United States Naval Experiment Station, Annapolis, Md.
University Library, Edinburgh, Scotland.
University of Cincinnati, Cincinnati, O.
University of Idaho, Moscow, Idaho.
University of Illinois, Urbana, Ill.
University of Kansas, Lawrence, Kan.
University of Leeds, Leeds, England.
University of Maine, Orono, Me.
University of Michigan, Ann Arbor, Mich.
University of Minnesota, Minneapolis, Minn.
University of Missouri, Columbia, Mo.
University of Missouri, Rolla, Mo.
University of Nebraska, Lincoln, Neb.
University of Pennsylvania, Philadelphia, Pa.
University of Tennessee, Knoxville, Tenn.
University of Vermont, Burlington, Vt.
University of Wisconsin, Madison, Wis.
University of Wyoming, Laramie, Wyo.
Vanderbilt University, Nashville, Tenn.
Verein deutscher Ingenieure, Berlin, Germany.
Washington Steel and Ordnance Co., Washington, D. C.
Washington University, St. Louis, Mo.
Western Gas Construction Co., Fort Wayne, Ind.
Wilmington Institute, Wilmington, Del.
Worcester Free Public Library, Worcester, Mass.
Worcester Polytechnic Institute, Worcester, Mass.

CHARTER

CERTIFICATE OF INCORPORATION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS AND THE MECHANICAL ENGINEERS' LIBRARY ASSOCIATION, TOGETHER WITH THE ORDER OF THE SUPREME COURT FOR THEIR CONSOLIDATION.

ORDER FOR CONSOLIDATION

At a Special Term, Part II, of the New York Supreme Court, held in and for the City and County of New York, in the County Court House, Borough of Manhattan, City of New York, on the 17th day of October, 1907.

PRESENT:

HONORABLE JAMES A. BLANCHARD,

Justice

IN THE MATTER OF THE PETITION
OF
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS AND OF THE MECHANICAL ENGINEERS' LIBRARY ASSOCIATION, FOR AN ORDER CONSOLIDATING THEM INTO ONE CORPORATION.

Upon reading and filing the annexed petition of The American Society of Mechanical Engineers, verified on the 15th day of October, 1907; and the petition of The Mechanical Engineers' Library Association, verified the 15th day of October, 1907; and the agreement of consolidation, entered into between The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association, on the 16th day of September, 1907; and the certificate of approval by the Chairman and Clerk of a meeting of the Fellows of The Mechanical Engineers' Library Association, duly acknowledged on the 15th day of October, 1907; and the certificate of approval by the Chairman and Clerk of a meeting of the members of The American Society of Mechanical Engineers, duly acknowledged on the 15th day of October, 1907;

And it appearing to the satisfaction of the Court from the aforesaid papers that The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association are membership corporations, incorporated under the laws of the State of New York, for kindred purposes, being purposes for which a corporation may be formed under the Membership Corporations' Law of the State of New York; and that the said corporations have heretofore duly entered into an agreement for the consolidation of said corporations, which said agreement sets forth the terms and conditions of consolidation, the name of the proposed corporation, the number of its Directors, the time of

NOTE.—On December 15, 1910, the Secretary of State of the State of New York filed and recorded a supplemental certificate of incorporation which provides that the annual meeting and annual election of officers shall be held at such time and in such manner as shall be provided in the Constitution and By-Laws.

the annual election, and the names of the persons to be Directors until the first annual meeting;

That each of the said corporations has duly petitioned the Supreme Court for an order consolidating the two corporations, which said petition sets forth the agreement for consolidation, and a statement of all the property and liabilities, and the amount and sources of its annual income of each of said corporations; and that before the presentation of the said petition to this Court the agreement and the petition were approved by more than three-fourths of the votes legally cast at a meeting of said corporations, separately and specially called for that purpose, which approval, duly verified by the Chairman and Clerk of such meeting, is duly annexed to said petitions;

And the Court being satisfied that the said petition should be granted:

NOW, THEREFORE, Upon motion of Porter and Barnes, attorneys for the petitioners;

IT IS HEREBY ORDERED, That The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association, as they now exist, be and the same hereby are, in accordance with Section VII, Article I of the Membership Corporations' Law of the State of New York, consolidated into one corporation, upon the following terms and conditions, to-wit—

That the two corporations be consolidated into one corporation; that all the property now owned by either of the two corporations be owned by the one consolidated corporation; that all the liabilities of either of the two corporations shall be assumed and paid by the one consolidated corporation; that the members of each of the two corporations shall become, without the payment of any initiation fees, or other dues, members in equal standing in the one consolidated corporation; that the consolidated corporation shall be governed by the Constitution, and By-Laws and Rules of The American Society of Mechanical Engineers, as the same exist at the time of the signing of this order; that the name of the new consolidated corporation shall be "THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS"; that the number of the Directors of the new corporation shall be twenty-two; that the annual election shall be held on the first Tuesday of December of each year; that the names of the persons to be Directors of the corporation until the first annual meeting shall be:

FREDERICK R. HUTTON
WALTER M. McFARLAND
EDWARD N. TRUMP
ROBERT C. McKINNEY
ALEX DOW
P. W. GATES
J. W. LIEB, JR.
WM. H. WILEY
A. L. RIKER
GEO. M. BRILL
FRED J. MILLER

RICHARD H. RICE
WALTER LAIDLAW
FRANK G. TALMAN
FREDERICK M. PRESCOTT
A. J. CALDWELL
G. M. BASFORD
F. W. TAYLOR
JOHN R. FREEMAN
AMBROSE SWASEY
JAMES M. DODGE
EDWIN REYNOLDS

ENTER

J. A. BLANCHARD

Justice of the Supreme Court

CONSTITUTION

NOTE—The rules of the Society adopted in 1880 were in force until 1884, when they received general revision by a Committee whose report, distributed by letter-ballot, was adopted November 5, 1884. In December, 1894, a similar extensive revision was made under the direction of the Council. In December, 1903, new Constitution, By-Laws and Rules, formulated by a special committee, were adopted and went into effect. These have been amended from time to time. The Constitution was further amended by a letter-ballot on March 3, 1913.

NAME, OBJECT, AND GOVERNMENT

C 1 The title of this society is "The American Society of Mechanical Engineers."

C 2 The object of the Society is to promote the Arts and Sciences connected with Engineering and Mechanical Construction. The principal means for this purpose shall be the holding of meetings for the reading and discussion of professional papers, and for social intercourse; the publication and distribution of its papers and discussions; and the maintenance of an Engineering Library.

C 3 The Society shall be governed by this Constitution and by By-Laws and Rules in harmony therewith.

C 4 The Society was organized as a Corporation under the laws of the State of New York, April 7, 1880. Its offices shall be located in the City of New York.

MEMBERSHIP

C 5 Persons connected with the Arts and Sciences relating to Engineering or Mechanical Construction may be eligible for admission into the Society.

C 6 The membership of the Society shall consist of Honorary Members, Members, Associates, Associate-Members and Juniors. Honorary Members, Members, Associates and Associate-Members are entitled to vote and to hold office. Juniors are not entitled to vote nor to hold office, but are entitled to all the other privileges of membership.

C 7 Honorary Members, Members, Associates and Associate-Members are entitled to vote on all questions before any meeting of the Society, in person, or by proxy given to a person entitled to vote. A proxy shall not be valid for a greater time than for six months.

C 8 An Honorary Member shall be a person of acknowledged professional eminence. The number of Honorary Members shall not exceed 25 at any time.

C 9 A Member shall be an Engineer or Teacher of Applied Science of thirty years of age or over. He must have shown by his experience or by the responsibility of his duties that he is competent to take charge of work in his profession.

C 10 An Associate shall be thirty years of age or over. He need not be an Engineer, but must have been so connected with some branch of Engineering or Science, or the Arts, or Industries, that the Council will consider him qualified to co-operate with Engineers in the advancement of professional knowledge.

C 11 An Associate-Member shall be an Engineer or Teacher of Applied Science of twenty-five years of age or over. He must show by his experience or by his duties that he is competent to execute work in his profession.

C 12 A Junior shall be twenty-one years of age or over. He must have had such engineering experience as will enable him to fill a subordinate position in engineering work, or he must be a graduate of an engineering school.

C 13 The rights and privileges of every Honorary Member, Member, Associate, Associate-Member and Junior shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

ADMISSION

C 14 Honorary Members shall be nominated by at least ten members of the Society. The grounds upon which the nomination is made shall be presented to the Council in writing.

C 15 All applications for membership to the grades of Member, Associate, Associate-Member or Junior shall be presented to the Council, which shall consider and act upon each application, assigning each approved applicant to the grade of membership to which, in the judgment of the Council, his qualifications entitle him. The name of each candidate thus approved by the Council shall, unless objection is made by the applicant, be submitted to all the members of the Council for election, by means of a letter-ballot.

C 16 Any person desiring to change his grade of membership shall make application to the Council in the same manner as is required in the case of a new applicant.

C 17 Election to membership shall be by sealed letter-ballot of the Council as the By-Laws shall provide. Fifteen affirmative votes shall be required for the election of a candidate to membership in any grade. One negative vote shall defeat an election to Honorary Membership. Two negative votes shall defeat an election to any other grade.

C 18 Each person elected, excepting Honorary Members, shall subscribe to this Constitution, and shall pay the initiation fee before he can be entitled to the rights and privileges of membership. If such person does not comply with this requirement within six months after notice of his election, he will be deemed to have declined election. The Council may, thereupon, declare his election void.

INITIATION FEES AND DUES

C 19 The initiation fee for membership in each grade shall be as follows:

For Member	\$25.00
For Associate	25.00
For Associate-Member	25.00
For Junior	15.00

C 20 A Junior, on promotion to any other grade of membership, shall pay an additional fee of \$10.

C 21 The annual dues for membership in each grade shall be as follows:

For Member	\$15.00
For Associate	15.00
For Associate-Member	15.00
For Junior	10.00

for the first six years of his membership and thereafter the same as for an Associate-Member.

C 22 The Council may, in its discretion, permit any Member, Associate or Associate-Member to become a Life Member in the same grade, by the payment at one time of an amount sufficient to purchase from the Equitable Life Assurance Society of New York, an annuity on the life of a person of the age of the applicant equal to the annual dues in his grade. Such Life Member shall not be liable thereafter for annual dues.

C 23 The Council shall have the power, by letter-ballot, to admit to Life Membership, without the payment of a life membership fee, any person who, for a long term of years, has been a member, an Associate or an Associate-Member when, for special reasons, such procedure would in its judgment, promote the best interests of the Society, provided that notice of such proposed action shall have been given at a previous meeting of the Council. One dissenting vote shall defeat such admission.

SUSPENSIONS AND EXPULSIONS

C 24 A person in any grade of membership who shall leave his annual dues unpaid for one year shall not receive the volume of Transactions until such arrears are paid. A person who shall leave his dues unpaid for two years shall, in the discretion of the Council, have his name stricken from the roll of membership, and shall cease to have any further rights as such.

C 25 The Council may refuse to receive the dues of any member of any grade, who shall have been adjudged by the Council to have violated the Constitution or By-Laws of the Society, or who, in the opinion of the Council by a two-thirds vote, shall have been guilty of conduct rendering him unfit to continue in its membership; and the Council may expel such person and remove his name from the list of members.

THE COUNCIL

C 26 The affairs of the Society shall be managed by a board of directors chosen from among its Members, Associates and Associate-Members, which shall be styled "The Council." The Council shall consist of the President of the Society, who shall be the presiding officer, six Vice-Presidents, nine Managers,

the Treasurer, and the five surviving Past-Presidents who have last held office. Five members of the Council shall constitute a quorum for the transaction of business. The Secretary may take part in the deliberations of the Council, but shall not have a vote therein. The Chairman of the Finance Committee shall attend the meetings of the Council and take part in the discussion of financial questions, but shall not have a vote.

C 27 The Council thus constituted shall be the legal trustee of the Society. All gifts or bequests not designated for a specific purpose shall be invested by the Council, and only the income therefrom may be used for current expenses.

C 28 Should a vacancy occur in the Council, or in any elective office except the Presidency, through death, resignation or other cause, the Council may elect a Member, Associate or Associate-Member to fill the vacancy until the next annual election.

C 29 The Council shall regulate its own proceedings, and may by resolution delegate specific powers to an Executive Committee or to any one or more members of the Council. No act of the Executive Committee or of a delegate shall be binding until it has been approved by a resolution of the Council.

C 30 The Council shall present at the Annual Meeting of the Society a report verified by the President or Treasurer or by a majority of the members of the Council, showing the whole amount of real and personal property owned by the Society, where located, and where and how invested, and the amount and nature of the property acquired during the year immediately preceding the date of the report, and the manner of the acquisition; the amount applied, appropriated or expended during the year immediately preceding such date, and the purposes, objects or persons to or for which such applications, appropriations, or expenditures have been made; also the names and places of residence of the persons who have been admitted into membership in the Society during the last year, which report shall be filed with the records of the Society, and an abstract thereof shall be entered in the minutes of the proceedings of the Annual Meeting.

C 31 An act of the Council, which shall have received the expressed or implied sanction of the membership at the next subsequent meeting of the Society, shall be deemed to be the act of the Society, and shall not afterwards be impeached by any member.

C 32 The Council may, by a two-thirds vote of the members present, declare any elective office vacant, on the failure of its incumbent for one year, from inability or otherwise, to attend the Council meetings, or to perform the duties of his office, and shall thereupon appoint a Member, Associate or Associate-Member to fill the vacancy until the next Annual Meeting. The said appointment shall not render the appointee ineligible to election to any office.

C 33 At each Annual Meeting there shall be elected from among the Members, Associates and Associate-Members:

A President, to hold office for one year.

Three Vice-Presidents, each to hold office for two years.

Three Managers, each to hold office for three years.

A Treasurer, to hold office for one year.

C 34 The election of officers shall be by sealed letter-ballot, as the By-Laws shall provide.

C 35 The term of all elective officers shall begin on the adjournment of the Annual Meeting of the Society. Officers shall continue in their respective offices until their successors have been elected and have accepted their offices.

C 36 A President, Vice-President, or Manager shall not be eligible for immediate re-election to the same office at the expiration of the term for which he was elected.

C 37 The Council, at its first meeting after the Annual Meeting of the Society, shall appoint a person of the grade of Member to serve as Secretary of the Society for one year subject to removal for cause by an affirmative vote of members of the Council, at any time after one month's written notice has been given him to show cause why he should not be removed, and he has been heard in his own defense, if he so desires. The Secretary shall receive a salary which shall be fixed by the Council at the time of his appointment.

The Council may also in its discretion appoint a person of the grade of Member to be an Honorary Secretary of the Society for a term not to exceed one year, but he may be reappointed from year to year. He shall perform such duties as may be assigned to him by the Council which are in conformity with the Constitution and By-Laws, and with or without compensation as the Council may direct.

C 38 The President, Secretary, and Treasurer shall perform the duties legally or customarily attaching to their respective offices under the laws of the State of New York, and such other duties as may be required of them by the Council.

C 39 A vacancy in the office of President shall be filled by the Vice-President, who is senior by age.

*MEETINGS

C 40 The Society shall hold two meetings in each year. The Annual Meeting shall begin in New York City on the first Tuesday in December, and a Semi-Annual Meeting shall be held at such time and place as the Council may appoint. Fifty persons entitled to vote shall constitute a quorum for the transaction of business.

C 41 Special meetings of the Society may be called at any time at the discretion of the Council, or shall be called by the President upon the written request of fifty persons entitled to vote, the notices for such meetings to state the business for which such meeting is called and no other business shall be entertained or transacted at that meeting.

C 42 The expenses of all meetings of the Society and of any group or section thereof, shall be arranged in accordance with such By-Laws and Rules as the Council may from time to time adopt, provided, however, that nothing in this section shall be construed to authorize the Council to make any increase in the annual dues of members in any grade.

C 43 Any appropriation recommended by the Society at a meeting, shall not take effect until it has been approved by the Council.

C 44 Every question which shall come before a meeting of the Society or of the Council or a Committee, shall be decided by a majority of the votes cast, unless otherwise provided in this Constitution or the By-Laws or the Laws of the State of New York. The Council may order the submission of any question to the membership for discussion by letter-ballot. Any meeting of the Society at which a quorum is present, may order the submission of any question to the membership for discussion by letter-ballot.

STANDING COMMITTEES

C 45 The Standing Committees of the Society to be appointed by the President shall be:

- Finance Committee.
- Committee on Meetings.
- Publication Committee.
- Membership Committee.
- Library Committee.
- House Committee.
- Research Committee.
- Public Relations Committee.
- Committee on Constitution and By-Laws.

C 46 There shall be a John Fritz Medal Committee of four members appointed as provided in the By-Laws.

C 47 The Annual Committees shall be:

- An Executive Committee, appointed by the Council;
- A Nominating Committee, appointed by the President;
- Tellers as required by the By-Laws, appointed by the President.

C 48 Special Nominating Committee:

Twenty or more persons entitled to vote may constitute themselves a Special Nominating Committee, with the same powers as the Annual Nominating Committee.

C 49 Professional Committees:

The Council shall have power to appoint, upon a recommendation of the Society at a general meeting, or upon its own initiative, such Professional Committees as it may deem desirable, to investigate, consider, and report upon subjects of engineering interest. Reports of such committees may be accepted by the Society and printed in the Transactions, but shall not be approved or adopted as the action of the Society. Any proposed expenses of such committees must be authorized by the Council before they are incurred.

C 50 Each committee shall perform the duties required of it in the By-Laws, or assigned to it by the Council. The Secretary of the Society shall be the Secretary of each of the Standing Committees.

C 51 The Council may at any time, in its own discretion, remove any or all members of any committee, except a Nominating Committee; and the vacancy arising from this or from

any other cause, shall be filled by appointment by the President, except a vacancy in the Executive Committee, which shall be filled by the Council.

SECTIONS OF THE SOCIETY

C 52 The Council may, in its discretion, authorize the organization of sections or groups of any or all grades of membership, for professional or scientific purposes which are in harmony with the Constitution and By-Laws of this Society. Such sections or groups may in the discretion of the Council, be geographical or professional, and shall have such powers, and act under such rules and regulations as the Council may from time to time prescribe.

TRANSACTIONS

C 53 The official record of technical papers and discussions shall be known as the Transactions of the Society, and shall be published under the direction of the Council. There may be included therein, the annual report of the Council, reports of committees, and business records of the Society.

C 54 The Society shall claim no exclusive copyright to any papers read at its meetings, or any reports or discussions thereon, except in the matter of their official publication under the Society's imprint as its Transactions. The policy of the Society shall be to give the professional and scientific papers read before it the widest circulation possible, with the view of making the work of the Society known, encouraging Engineering progress, and extending the professional reputation of its members.

C 55 The Society shall not be responsible for statements or opinions advanced in papers or in discussions at its meetings. Matters relating to politics or purely to trade shall not be discussed at a meeting of the Society, nor be included in the Transactions.

C 56 The Society shall not approve or adopt any standard or formula, or approve any engineering or commercial enterprise. It shall not allow its imprint or name to be used in any commercial work or business.

AMENDMENTS TO THE CONSTITUTION

C 57 At any Semi-Annual Meeting of the Society any person entitled to vote may propose in writing an amendment to this Constitution. Such proposed amendment shall not be voted at that meeting, but shall be open to discussion and to such modification as may be accepted by the proposer. The proposed amendment shall be mailed in printed form by the Secretary to each person entitled to vote, at least sixty days previous to the next Annual Meeting, accompanied by comment by the Council, if it so elects. At that Annual Meeting such proposed amendment shall be presented for discussion and final amendment, and shall subsequently be submitted to all persons entitled to vote, provided that twenty votes are cast in favor of such sub-

mission. The final vote on adoption shall be by sealed letter-ballot, closing at 12 o'clock noon, on the first Monday of March following.

C 58 The letter-ballot, accompanied by the text of the proposed amendment, shall be mailed by the Secretary to each person entitled to vote, at least thirty days previous to the closure of the voting. The ballots shall be voted, canvassed, and announced as provided in the By-Laws. The adoption of the amendment shall be decided by a majority of the votes cast. An amendment shall take effect on the announcement of its adoption by the Presiding Officer of the Semi-Annual Meeting next following the closure of the vote.

AMENDMENTS TO BY-LAWS AND RULES

C 59 For the further ordering of the affairs of the Society, the Council may, by a two-thirds vote of its members present, amend the By-Laws in harmony with this Constitution, provided that a written notice of such proposed amendment shall have been given at the previous regular meeting of the Council; and provided further that the Secretary shall have mailed to each member of the Council a copy of such proposed amendment, at least thirty days in advance of the meeting of the Council at which action is to be taken. The amendment shall take effect immediately on its passage by the Council. The Secretary shall at once mail a copy of such amendment to the members of all grades.

C 60 The Council may, by a majority vote of the members present at any meeting, establish, amend, or annul Rules for the conduct of the business affairs of the Society; for the ordering and conduct of its professional or business meetings, and for the guidance of its committees in their work and reports; provided that such rules are in harmony with the Constitution and By-Laws of the Society.

CONSTITUTION GOES INTO EFFECT

C 61 This Constitution shall supersede all previous Rules of the Society, and shall go into effect on the announcement by the Presiding Officer of its adoption.

BY-LAWS

CANDIDATES FOR MEMBERSHIP

B1 A candidate for admission to the Society as a Member, Associate, or Associate-Member must make application on a form approved by the Council, upon which he shall write a statement giving a complete account of his qualifications and engineering experience, and an agreement that he will, if elected, conform to the Constitution, By-Laws and Rules of the Society. He must refer to at least five Members, Associates, or Associate-Members to whom he is personally known.

B2 Applications for membership from Engineers who are not resident in the United States or Canada, and who may be so situated as not to be personally known to five members of the Society, as required in the foregoing paragraph, may be recommended for ballot by five members of the Council, after sufficient evidence has been secured to show that in their opinion the applicant is worthy of admission to the grade which he seeks.

B3 A candidate for admission to the Society as a Junior must make application in the same manner as provided for Members, except that he must refer to not less than three Members, Associates, or Associate-Members to whom he is personally known.

B4 References shall not be required of candidates for Honorary Membership.

B5 The references for each candidate for admission to the Society shall be requested to make a confidential communication to the Membership Committee, setting forth in detail such information, personally known to the referee, as shall enable the Council to arrive at a proper estimate of eligibility of the candidate for admission to the Society.

ELECTION OF MEMBERS

B6 The Secretary shall mail to each member of the Council a ballot stating the names and respective grades of the candidates for membership in the Society which have been approved by the Membership Committee after having been duly posted in The Journal. The voter shall prepare his ballot by crossing out the name of any candidate rejected by him, and shall enclose said ballot in an envelope and seal the same; he shall then enclose said envelope in a second envelope marked "Ballot for Members," and seal the same, and he shall then write his own name thereon for identification. A ballot without the autographic endorsement of the voter written on the outer envelope is defective, and shall be rejected.

B7 The Secretary shall count the ballots cast by the Council for election of new members, notify the applicants of their election, and regularly report the results of the ballots at the

Council meeting next following such election. The names of applicants who are not elected shall neither be announced nor recorded in the Transactions.

B 8 Election to Honorary Membership shall be by letter-ballot of the Council. A notice of such proposed election shall be mailed by the Secretary to each member of the Council at least sixty days in advance of the date set for the closure of such election.

B 9 Each person elected to membership, except an Honorary Member, must subscribe to the Constitution, By-Laws and Rules of the Society and pay the initiation fee before he can receive a certificate of membership in the Society. Resignations from membership shall be presented to the Council for action.

ELECTION OF OFFICERS

B 10 The Secretary shall mail on or before the last Thursday in October of each year to each member entitled to vote a ballot stating the names of the candidates for the several offices falling vacant, and the time of the closure of the voting. The voter shall prepare his ballot by crossing out the name of any candidate or candidates rejected by him, and may write in the name of any eligible member of the Society. The voter shall enclose said ballot in an envelope and seal the same. He shall then enclose the sealed envelope in a second envelope marked "Ballot for Officers," seal the same, and shall then write his name thereon for identification. The ballot thus prepared and enclosed shall be mailed or delivered unopened to the Tellers of Election. The Secretary shall certify to the competency and signature of all voters. A ballot without the autographic endorsement of the voter written on the outside envelope is defective, and shall be rejected by the Tellers of Election. A ballot which contains more names than there are offices to be filled is thereby defective, and shall be rejected by the Tellers.

B 11 The voting for the election of officers shall close at ten o'clock in the forenoon on the first Tuesday in December in each year. The Tellers shall not receive any ballot after the stated time for the closure of the voting. The Tellers of Election shall first open and destroy the outer envelopes and shall then open the inner ones, canvass the ballots and certify the result to the President or Presiding Officer at the first session of the current meeting of the Society. The Presiding Officer shall then announce the candidates having the greatest number of votes for their respective offices, and declare them elected for the ensuing year.

B 12 The names of the candidates proposed by the Nominating Committee or Committees, and the respective offices for which they are candidates, shall be printed in separate lists on the same ballot sheet, each list of candidates to be printed under the names of the members of the particular committee which proposed it.

B 13 In case of a tie in the vote for any officer, the President or, in his absence, the Presiding Officer, shall cast the deciding vote.

B 14 The initiation fee and that part of the annual dues from the first of the month following the date of election to the first of October following, shall be due and payable on the first day of the month following the date of election of a Member, Associate, Associate-Member or Junior. Upon the payment of this amount, the person elected shall be entitled to the rights and privileges of membership in the grade to which he is elected. The annual dues for each ensuing year shall be due and payable in advance, on the first day of October in each year thereafter. No member shall be in arrears in payment of dues until the dues shall be unpaid for one year.

B 15 A Member, Associate, Associate-Member or Junior in arrears for dues for one year, on the first day of October previous to the Annual Meeting, shall not be entitled to vote, or to receive the Transactions or the publications issued by the Society thereafter until such dues have been paid. Should the arrears for dues or otherwise be for more than two years, the name of such person shall be presented to the Council for such action as it deems advisable under C 24. Should the right to vote, or to receive the publications of the Society be questioned, the books of the Society shall be conclusive evidence.

B 16 The Council at any meeting may, in its discretion, permanently remit the dues of any Member of the Society who has paid thirty years' dues, or who shall have reached the age of seventy years after having paid twenty-five years' dues, provided that notice of such proposed action shall have been given at a previous meeting of the Council and the Committee on Membership shall have concurred in recommending that this action be taken. The Council may, in its discretion, restore to membership any person dropped from the rolls for non-payment of dues, or otherwise, upon such terms and conditions as it may at the time deem best for the interests of the Society.

FINANCIAL ADMINISTRATION.

B 17 The Council, at its first meeting in each fiscal year, shall consider the recommendations of the Finance Committee concerning the expenditure necessary for the work of the Society during that year. The apportioning of the work of the Society among the various Standing and other Committees shall be on a basis approved by the Council and in harmony with the Constitution and By-Laws. The appropriations approved by the Council, or so much thereof as may be required for the work of the Society, shall be expended by the Secretary acting as Business Manager, under the direction of the various Committees of the Society, and all bills against the Society for such expenditure shall be certified by the Secretary and shall then be sent to the Finance Committee for audit. Money shall not be paid out by any officer or employee of the Society except upon vouchers duly audited by the Finance Committee.

THE JOURNAL.

B 18 The Council shall institute a monthly publication to be called "The Journal," which shall be under the management of the Secretary, who shall act under the general supervision of

the Publication Committee, subject to approval by the Council as to the policy thereof and the expenditures therefor. The annual subscription price of The Journal to each member is two dollars and is included in the annual dues of such member.

COMMITTEES

B 19 The President within one month after the Annual Meeting shall fill all vacancies in the Standing Committees by appointment from the membership of the Society.

Each of the Standing and the Annual Committees, shall, at their first meeting after the Annual Meeting, elect a Chairman to serve for one year. The President shall appoint the Chairman of each Professional Committee. A member of a Standing Committee, whose term of office has expired, shall continue to serve until his successor shall have been appointed.

FINANCE COMMITTEE

B 20 The Finance Committee shall consist of five Members Associates, or Associate-Members. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. This Committee shall, under the direction of the Council, have a supervision of the financial affairs of the Society, including the books of account. The Committee may cause the accounts of the Society to be audited and approved annually by a chartered or other competent public accountant. The Committee shall hold monthly meetings for the audit of bills and such other business as shall come before it and shall deliver to the Secretary for presentation to the Council at the end of each fiscal year, a report of the financial condition of the Society for the past year, and also shall present therewith a detailed estimate for the probable income and expenditure of the Society for the following twelve months. It shall make recommendations to the Council as to investments, and, when called upon by the Council, advise upon financial questions. It shall have charge of the making of all contracts and other obligations to pay money in the Society's work and the ordering of all expenditures thereunder.

COMMITTEE ON MEETINGS

B 21 The Committee on Meetings shall consist of five persons who may be members of any grade. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of the Committee to procure professional papers, to pass upon their suitability for presentation, and to suggest topical subjects for discussion at the Annual and Semi-Annual Meetings. The Committee may refer any paper presented to the Society to a person or persons, especially qualified by theoretical knowledge or practical experience, for their suggestions or opinions as to the suitability of the paper for presentation. Papers from non-members shall not be accepted except by unanimous vote of the Committee.

The Committee shall arrange the program, and shall have general charge of the entertainments to be provided for the members and guests for the above meetings. It shall prohibit

the distribution or exhibition at the headquarters or at the places of the above meetings of all advertising circulars, pamphlets or samples of commercial apparatus or machinery. At the end of each fiscal year, the Committee shall deliver to the Secretary for presentation to the Council, a detailed report of its work.

PUBLICATION COMMITTEE

B 22 The Publication Committee shall consist of five Members, Associates, or Associate-Members. The term of office of one member shall expire at the end of each Annual Meeting. The Committee shall review all papers and discussions which have been presented at the meetings, and shall decide what papers and discussions, or parts of the same, shall be printed in the Transactions of the Society. The Committee shall have the supervision of the monthly publication of the Society known as "The Journal." The Committee will be expected to publish all such data as will be of assistance to engineers or investigators in their work. At the end of each fiscal year the Committee shall deliver to the Secretary for presentation to the Council, a detailed report of its work.

MEMBERSHIP COMMITTEE

B 23 The Membership Committee shall consist of five Members, Associates or Associate-Members. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of this Committee:

To meet monthly to receive and scrutinize all applications for membership to the Society:

To seek further information as to the qualifications of an applicant, whose evidence of eligibility is not clear to the Committee:

To report to each session of the Council the names of all applicants under consideration, together with the action of the Committee on each.

The Committee shall at once destroy all correspondence in relation to each applicant when his name has been placed on the ballot by order of the Council, or upon the withdrawal of the application.

LIBRARY COMMITTEE

B 24 The Library Committee shall consist of four Members and the Secretary of the Society. One of the four Members shall be appointed by the President before the first day of each calendar year to serve for four years.

It shall be the duty of the Committee to represent the Society on the Library Board of the United Engineering Society.

The Committee shall deliver to the Secretary before October fifteenth of each year a detailed report of its work for the preceding twelve months and also of the work which it recommends for the next fiscal year, with an estimate of the cost thereof.

HOUSE COMMITTEE

B 25 The House Committee shall consist of five persons who shall be Members, Associates, Associate-Members or Juniors. The term of office of one Member of the Committee shall expire

at the end of each Annual Meeting. It shall be the duty of the House Committee to have the care, management and maintenance of the rooms of the Society and furnishings, the historical relics, the paintings, and objects of art, and to recommend to the Council suitable regulations for their care and use. At the end of each fiscal year the Committee shall deliver to the Secretary a detailed report of its work.

EXECUTIVE COMMITTEE

B 26 The Council shall appoint from its members an Executive Committee to act for the Council during the interval between its sessions. The Committee shall make a report of its acts to each session of the Council for approval. The Secretary may take part in the deliberations of the Executive Committee, but shall not have a vote therein.

NOMINATING COMMITTEES

B 27 A Nominating Committee of five members, not members of the Council, shall be appointed by the President within three months after he assumes office. It shall be the duty of this Committee to send to the Secretary, on or before September 15th, the names of consenting nominees for the elective offices next falling vacant under the Constitution. Upon the request of any Member, Associate, or Associate-Member, the Secretary shall furnish to the applicant the names of such nominees. The names of the nominees proposed by the Committee shall be published in the next issue of The Journal.

B 28 A special Nominating Committee, if organized, shall, on or before October 20th, present to the Secretary the names of the candidates nominated by it for the elective offices next falling vacant under the Constitution, together with the written consent of each.

JOHN FRITZ MEDAL COMMITTEE

B 29 The John Fritz Medal Committee shall consist of four persons of the grade of Member, to be appointed by the Council. The term of office of one member of this Committee shall expire at the end of each Annual Meeting. The duty of this Committee shall be to represent the Society in the Board of Trustees of the John Fritz Medal Fund Corporation.

TRUSTEE UNITED ENGINEERING SOCIETY

B 30 The Council shall, previous to January 1st of each year, elect a trustee to serve for a term of three years on the Board of Trustees of the United Engineering Society. No trustee shall be eligible for more than two terms consecutively.

REPRESENTATIVE DELEGATES

B 31 The Council may, in its discretion, appoint a member or members of the Society, or other person or persons, to represent it at meetings of Societies of kindred aim or at public functions. Such delegates shall be designated as "Honorary

Vice-Presidents," and their duties shall terminate with the occasion for which they were appointed.

TELLERS

B 32 The President shall, on or before the last Thursday in October of each year, appoint three Tellers of Election of Officers, whose duty shall be to canvass the votes cast, and certify the same to the President or Presiding Officer at the first session of the Annual Meeting. Their term of office shall expire when their report of the canvass has been presented and accepted.

B 33 Ballots for an amendment to the Constitution shall be canvassed and announced in the same manner as the ballots for officers of the Society. The President shall appoint three Tellers to canvass any letter-ballots which shall be ordered by the Council or by the Society and to certify the same to the President, or the Presiding Officer.

MEETINGS

B 34 The Annual Meeting shall begin in the City of New York on the first Tuesday in December and continue from day to day as the Council may direct.

The Annual Business Meeting of the Society shall be held on the Wednesday following the first Tuesday of December.

The Semi-Annual Meeting shall be held in such place and begin on such a day as the Council may direct, and continue from day to day.

The Semi-Annual Business Meeting of the Society shall be held immediately preceding the first professional session of the Semi-Annual Meeting.

Professional meetings of the Society for the reading and discussion of papers and for topical discussions may be held at such times and places as the Council may direct.

Announcements of all meetings of the Society shall be published in The Journal.

A notice of each Annual and Semi-Annual Meeting and each Annual and Semi-Annual Business Meeting of the Society shall be mailed by the Secretary to each member in each grade not less than thirty days before the date of that meeting and at least thirty days before each Special Business Meeting.

SECRETARY

B 35 The Secretary of the Society shall be the Secretary to the Council, and also to each of the Standing Committees.

The Secretary shall, under the supervision of the Finance Committee, have charge of the Books of Account of the Society.

He shall make and collect all bills against members or others.

He shall have charge of all bills against the Society, shall keep an account of the same, and shall present them in proper form to the Finance Committee for audit.

All funds received by any person for the Society, shall be delivered to the Secretary. He shall immediately enter them in the Books of Account, and shall immediately deposit such

funds as he receives, to the credit of the Society, in a bank to be designated by the Council.

TREASURER

B 36 The Treasurer shall make payments only on the audit of the Finance Committee, or upon the direction of the Council, by resolution of that body. He shall furnish a bond for the faithful performance of his duties to such amount as the Council may require, such bond to be procured from an incorporated guarantee company, at the expense of the Society.

TITLES, EMBLEMS, CERTIFICATES

B 37 Each Member, Associate, Associate-Member and Junior shall, subject to such rules as the Council may establish, be entitled, on request, to a certificate of membership, signed by the President and Secretary of the Society. Every such certificate shall remain the property of the Society, and shall be returned to it on demand of the Council.

B 38 Each proxy authorizing a person to vote for an absent member, shall be signed by such absent member, with an attesting witness, and be submitted to the Secretary for verification of the member's right to vote at the meeting at which the right is to be exercised.

B 39 The emblem of each grade of membership approved by the Council shall be worn by those only who belong to that grade. The official stationery shall be used only by Officers and Committees of the Society.

B 40 The abbreviation of the titles of the various grades of membership approved by the Society are as follows:

For Honorary Members.....	Hon.Mem.Am.Soc.M.E.
For Members	Mem.Am.Soc.M.E.
For Associates	Assoc.Am.Soc.M.E.
For Associate-Members	Assoc-Mem.Am.Soc.M.E.
For Juniors	Jun.Am.Soc.M.E.

B 41 Standards for the conduct of the business affairs of the Society, of its professional or business meetings and of its Committees and their activities may be established, amended or annulled by a two-thirds vote of the members of the Council present at a meeting, provided that a written notice of the proposed addition or change may have been given at a previous meeting of the Council, and provided further that the Secretary shall have sent to each member of the Executive Committee (acting as a Committee on Standards) a draft of the proposed addition or change at least two weeks prior to the meeting at which they are to be voted on.

B 42 Directions for the conduct of the business affairs of the Society may be established by the Secretary and the work covered shall be carried out as provided by these Directions. These Directions may be added to, amended or annulled by the Secretary, but it shall be his duty to send to each member of the Executive Committee (acting as a Committee on Standards) a draft of the change before it is put into effect.

RESEARCH COMMITTEE

B 43 The Research Committee shall consist of five Members, Associates, Associate-Members or Juniors. The term of office of one member of the committee shall expire at the end of each Annual Meeting.

B 44 This Committee shall have supervision of such research or investigations as may be directed or approved by the Council; shall correspond and collaborate with committees of kindred technical, scientific or other societies; shall keep in touch with researches conducted in other countries, which are of value to the engineer, and shall report the same quarterly to the Council.

B 45 The Committee will be expected to maintain a system of announcement of results of research, and the trend of investigations, in any field, which will be of value to the engineering profession.

B 46 Gifts or bequests to the Society for the conduct of research or investigation shall be expended under the direction of the Council and shall be kept separate from other Society funds.

RULES

R1 The Secretary's office shall be open on business days from 9 a.m. to 5.30 p.m. During the Annual Meeting, the office shall be open from 9 a.m. to 10 p.m. A register shall be kept for each regular meeting, to record the attendance of members and guests.

R2 The Secretary shall provide a badge or pin for each member or guest attending the Annual and Semi-Annual Meetings; the badge of each Member, Associate, Associate-Member and Junior to bear his name.

R3 The Secretary shall, at each regular meeting of the Society, distribute at the headquarters a printed list of the names registered at the meeting.

R4 Papers accepted by the Committee on Meetings shall be classified as follows:

(a) Papers valuable for record, but not suitable for presentation at a meeting, which will be referred to the Publication Committee with the recommendations of the Committee on Meetings.

(b) Papers requiring either advance publication or printing and distribution in pamphlet form, either in full or in abstract, for discussion at a meeting.

Papers of this class the Committee on Meetings may either turn over at once to the Publication Committee for advance publication in The Journal if approved by that Committee; or it may have printed in pamphlet form a sufficient number of copies for distribution at a meeting, for mailing in advance to those who may discuss the paper and to others who may desire copies because of publication of the title or an advance abstract of the paper in The Journal.

(c) Papers which require discussion at a meeting to determine their value and general interest.

Papers of this class may be accepted by the Committee on Meetings, but should not be put in type until they have been read and discussed.

The Committee on Meetings may, in its discretion, select papers for the Annual or Semi-Annual Meetings which have already been presented and discussed before local meetings of the Society.

A member may by letter signify his intention to discuss any of the papers, and unless otherwise directed by the Presiding Officer, priority in debate shall be given in the order of the receipt by the Secretary of such notification.

R5 At professional sessions, each paper shall be read by abstract only, ten minutes being allowed to the author for the presentation unless otherwise ordered by the meeting.

R6 A member who has given notice of his intention to discuss a paper, and shall have reduced his discussion to writing, shall be entitled to ten minutes for its presentation.

R 7 Each speaker shall be limited to five minutes in the oral discussion of a paper unless the time should be extended by unanimous consent. A member who has once had the floor cannot claim it again until all the others have been heard who desire to speak on that paper. Authors may have five minutes to close the discussion on the paper.

R 8 Members unable to attend the meeting may send a discussion of any paper in writing, to be presented by the Secretary.

R 9 The Committee on Meetings shall deliver to the Secretary such papers as they recommend for presentation to the professional meetings of the Society.

R 10 The Secretary shall have sole possession of papers and illustrations between the time of their approval by the Committee on Meetings and their presentation to the professional session of the Society.

R 11 After the presentation and discussion of a paper, a copy of both shall be sent to the author, and, so far as possible, a copy of the reported discussion shall be sent to each member who presented it, with the request that he correct errors or omissions, and return the same promptly to the Secretary.

R 12 Members may order reprints of papers at a price sufficient to cover the cost to the Society, provided that said copies are not for sale.

R 13 The features of the program outside of the professional and business sessions to be provided for the members and guests at any meeting of this Society in any city shall be in charge of a Local Committee, subject, however, to the general approval of the Committee on Meetings. The President's reception of the Annual Meeting shall be in charge of the House Committee under the general supervision of the Committee on Meetings.

R 14 A member may invite a non-member to the professional sessions of the meeting, but the guest shall not take part in the proceedings without an invitation from the Presiding Officer. Invitations to guests of members for the entertainments provided for the Society shall be in the discretion of the Local Committee.

R 15 The Library of the Society shall be conducted as a free public reference library of engineering and the allied arts and sciences. It will be open on all week days between the hours of 9 a.m. and 9 p.m., except New Year's, Independence, Thanksgiving and Christmas Days. The rooms of the Society shall be open for the use and the convenience of members during the usual business hours.

R 16 Juniors who were elected to membership in the Society six years or more previous to the adoption of this Constitution shall pay the same dues as an Associate, beginning with the fiscal year which opens after such adoption. Juniors, who have been elected less than six years before that date, shall pay the dues of an Associate on the expiration of six years after their election.

R 17 Ballots for amendments to the Constitution shall be canvassed and announced in the same manner as the ballots for officers for the Society.

R 18 The American Society of Mechanical Engineers will furnish monthly issues of The Journal to all members of affiliated organizations who are not members of The American Society of Mechanical Engineers upon the payment by each of two dollars per year, such payment being due January 1 of each year. The American Society of Mechanical Engineers will furnish gratis to each affiliated body, extra copies of advance papers for use at its meetings, the number furnished to be agreed upon at the discretion of the Secretary.

PROFESSIONAL SECTIONS AND GEOGRAPHICAL GROUPS

R 19 A professional section or a geographical group of the Society shall consist of Honorary Members, Members, Associates, Associate-Members and Juniors of The American Society of Mechanical Engineers and of other persons to be designated Affiliates as hereinafter described.

R 20 A professional section of The American Society of Mechanical Engineers may, with the approval of the Council, be organized for the consideration of any engineering, scientific, or professional topic, provided that a number satisfactory to the Council, of Members of The American Society of Mechanical Engineers, unite in making written request for such an organization. A similar procedure shall apply to geographical groups. Such a section or group shall be designated as _____ Section or _____ Group of The American Society of Mechanical Engineers,—the blank being filled by the topic specialized or name of locality.

R 21 The provisions of the Constitution, By-Laws and Rules of The American Society of Mechanical Engineers, and the precedents of the Society with respect to professional sessions for the discussion of papers, shall cover the procedure of the professional sections or geographical groups except that no meeting of a section or group shall be considered a meeting of the Society as a whole.

R 22 For the convenient conduct of its professional affairs the section or group shall organize an Executive Committee of five members of the Society, under the general direction of the Council. Such officers as the section or group shall require must be selected from the membership of the Society. Other committees of the section or group shall be appointed by its Executive Committee.

R 23 The Executive Committee of the section or group, subject to the approval and direction of the Secretary of the Society, shall designate a Secretary of the section or group, whose duties shall be those usually attaching to the Secretary of a professional section, and who shall also see that the discussions of papers are satisfactorily reported and transmitted to the Secretary of the Society.

R 24 Expenditures for the purpose of a section or group chargeable to the Society must be authorized by the Secretary of the Society before they are incurred, and must be provided

for in the estimate and budget approved by the Council. No liability otherwise incurred shall be binding on the Society. Any expenditure not so provided must be met by the section or group itself.

R 25 Engineers and others not members of The American Society of Mechanical Engineers, but desiring to participate in the meetings of the section or group, may enroll themselves as Affiliates as heretofore provided, with the approval of the Executive Committee of the section or group. Such Affiliates shall have the privilege of presenting papers and taking part in the discussions. They shall pay \$5 per annum, which shall be due and payable in advance, on October 1st of each year of their enrollment, and shall thereby be entitled to receive the regular issues of The Journal for a period covered by their dues.

R 26 The Council of The American Society of Mechanical Engineers may, at sixty days' notice, suspend or disband any section or group.

STUDENT BRANCHES

The following rules with respect to Student Branches, among students of engineering and technical schools, have been added to the rules for the guidance of the organization of branches:

R 27 The name of this Association shall be "_____ Affiliated with The American Society of Mechanical Engineers"; or, the "_____ Student Branch of The American Society of Mechanical Engineers."

R 28 The basis of such an affiliation shall be the independence, autonomy and self-control of each affiliated body under its own by-laws, subject to such limitation as may be set by the Council.

R 29 Each affiliated society shall furnish to the Secretary of The American Society of Mechanical Engineers, satisfactory reports of discussions and business transacted at its meetings; also copies of all papers and addresses presented.

R 30 Upon recommendation of each affiliated society, the President of The American Society of Mechanical Engineers, after conference with the Secretary of the Society, shall appoint a member of the latter body to be Honorary Chairman of each affiliated society, for each year. Such Honorary Chairman shall be, ex-officio, a member of the Governing Committee of said affiliated society.

R 31 The Presiding Officer chosen by each affiliated society shall be styled Chairman of the _____ Affiliated with The American Society of Mechanical Engineers; or, Chairman of the _____ Student Branch of The American Society of Mechanical Engineers.

R 32 The affairs of the affiliated society shall be managed by a governing committee of at least three members, besides the Honorary Chairman.

R 33 The names which designate any committees appointed by the affiliated societies shall be different from the names of corresponding committees of The American Society of Mechanical Engineers.

R 34 The affiliated society shall have the privilege of having printing done by The American Society of Mechanical Engineers at cost. Where the affiliated society desires to publish any papers in local journals or elsewhere, it shall first ascertain that The American Society of Mechanical Engineers does not itself desire to publish such paper and the privilege of priority in publication shall always be the right of The American Society of Mechanical Engineers. The affiliated society shall claim no exclusive copyright upon such papers.

TELLERS

R 35 The Tellers of Election in counting the ballots for officers shall consider a ballot for an officer as valid, providing the intent of the voter as to that particular office is clear, even though his ballot as to candidates for another office may for any reason be invalid.

AFFILIATED SOCIETIES

R 36 Any regularly organized group of engineers or engineering society, which by Constitution, By-Laws and practice, is in accord with the traditions and aims of The American Society of Mechanical Engineers, may secure affiliation on approval by the governing boards of each Society.

R 37 The term "affiliated with The American Society of Mechanical Engineers" shall not be used officially or by individual members until specific approval has been secured by each governing board, nor shall such term be used by either after the relation of affiliation has terminated.

R 38 An affiliated society shall have independence, autonomy and self-control under its own constitution and by-laws, unimpaired by its relation with The American Society of Mechanical Engineers.

R 39 The American Society of Mechanical Engineers shall not be responsible for any act of an affiliated society.

R 40 Printing for an affiliated society will be done at cost; this applies also to the printing in pamphlet form of advance copies of all papers presented before The American Society of Mechanical Engineers and such papers as may be desired for meetings of an affiliated society. The Society may print in The Journal any papers and discussions presented before an affiliated society, which the Publication Committee of The American Society of Mechanical Engineers may select.

R 41 The members of an affiliated society shall have the right to subscribe and receive The Journal on the same terms as other affiliates of The American Society of Mechanical Engineers.

R 42 The relation of affiliation with any organization may be terminated by either party upon sixty days' notice, given in writing by the governing body of either society, to that of the other.

THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

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